



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
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नई दिल्ली, शनिवार, मार्च 23, 1991 (चैत्र 2, 1913)
NEW DELHI, SATURDAY, MARCH 23, 1991 (CHAITRA 2, 1913)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS
Calcutta, the 23rd March, 1991

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Todi Estates, III Floor,
Lower Parel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch.
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Amindivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :— The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्य तथा अमिकस्य

कलकत्ता, दिनांक 23 मार्च 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टेट,
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा दिव एवं दादरा और नगर द्वितीय।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय शाखा,
इकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय शाखा,
61, वालाजाह रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिर्कोय तथा एमिनिदिषि द्वीप।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—''पेटेंटस''

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केषल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य घनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा की जा सकती है।

CORRIGENDA

In the Gazette of India, Part-III, Section-2, dated 1st October, 1990 under the heading "PATENTS SEALED", delete the Number 163037.

In the Gazette of India, Part-III, Section-2, dated 25th August, 1990 in respect of Patent No. 167064 in the Page No. 966 read the application No. as 19/Bom/1988 instead of 10/Bom/1988.

THE PATENT OFFICE
Calcutta, the 23rd March, 1991

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed
Under Section 135, of the Patents Act, 1970.

The 13th February, 1991

137/Cal/91 ICI India Limited. A process for the production of polyoxazolines from 2-alkyl-4, 4-bis (hydroxy-methyl)-2-oxazolines.

138/Cal/91 Hoechst Celanese Corporation. Formation of hydroxyaromatic ketoacetal from an hydroxyaromatic methylketone and production of 5-(4'-hydroxyphenyl) hydantoin and D-p-hydroxyphenylglycine from 4-hydroxyacetophenone.

139/Cal/91 Sensys Ag. System for the waveguide-free bidirectional light or infrared transmission of electrical signals.

The 14th February, 1991

140/Cal/91 Samsung Electron Devices Co. Ltd. Separator for deflection yoke.

The 15th February, 1991

141/Cal/91 Sri Satrajit Gupta and Levcon Controls Pvt. Ltd. Flat probe method for measurement of level of corrosive liquids and granules (Materials) using principle of measuring electrical capacitance.

142/Cal/91 Leningradskoe Proizvodstvennoe Elektromashino-Stroitelnoe Obiedinenie "Elektrosila" Imeni S. M. Kirova. Method of stator assembly for vertical hydrogenerator.

143/Cal/91 Technion Research & Development Foundation Ltd. Device for a controlled release of fertilizers.

144/Cal/91 Felten & Guillaume Fabrik Elektrischer Apparate Aktiengesellschaft. Switch lock for a fault current circuit breaker.

145/Cal/91 E.I. Du Pont De Nemours & Co. A process for producing dimethylamine.
[Divisional date 24th April, 1986].

- 146/Cal/91 E.I. Du Pont De Nemours & Co. A process for producing dimethylamine.
[Divisional date 6th July, 1989].

The 18th February, 1991

- 147/Cal/91 Hoechst Aktiengesellschaft. Process for conditioning waste sulfuric acid.
- 148/Cal/91 Naue-Fasertechnik GmbH & Co. Kg. A water and/or oil-impermeable sealing mat consisting substantially of a substrate layer, a layer of swellable clay and a cover layer.
- 149/Cal/91 E.I. Du Pont De Nemours and Company. 1, 1, 2, 2, 3, 3-Hexafluorocyclopentane and use thereof in compositions and processes for cleaning.
- 150/Cal/91 E.I. Du Pont De Nemours and Company. Dispersible aramid pulp.
- 151/Cal/91 Hoechst Celanese Corporation. Process for the regio specific sulfonation of 2-amino-naphthalenes substituted in the 5- or 7 position by a fibre reactive V₅-group.
[Divisional date 14th June, 1988]
- 152/Cal/91 Hoechst Celanese Corporation. Process for the preparation of fibre-reactive azo dyes.
[Divisional date 14th June, 1988].
- 153/Cal/91 Vista Chemical Co. Alkoxylation process using calcium based catalysts.
[Divisional date 29th March, 1988].
- 155/Cal/91 Hoesch Maschinenfabrik Deutschland Ag. Underground wheel set lathe for reprofiling the wheels of railway wheel sets.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5

The 14th January, 1991

- 19/Del/91 Kamalamma Ramanadhan, "Collision accident passenger safety system for small type and medium type of passenger four wheeler vehicles (motor vehicles).
- 20/Del/91 International Business Machine Corporation, "Process for making a superconducting composition".
[Divisional date 7th March, 1988]
[Conventional date 15-1-88 U.K.]
- 21/Del/91 International Business Machines Corporation, "Process for making a superconducting composition". [Divisional date 7th March, 1988]
[Conventional date 15-1-1988 U. K.].
- 22/Del/91 The Lubrizol Corporation, "Tertiary amide-containing compositions for refrigeration systems".
- 23/Del/91 The Lubrizol Corporation, "Liquid compositions for refrigeration systems containing boron compositions".

The 15th January, 1991

- 24/Del/91 R. V. Engineers & Fabricators & Others, "A vehicle for providing a layer of a fog seal on a road surface".
- 25/Del/91 Jagpal Singh & Others, "A telescope".
- 26/Del/91 Saroj Chooramani Gopal, "A humidifier".
- 27/Del/91 R. V. Engineers & Fabricators & Others, "A vehicle for laying of a slurry seal onto a road surface".
- 28/Del/91 Vivek Gupta, "An air cooler".
- 29/Del/91 Exxon Chemical Patents, Inc., "Novel ethylene alpha-olefin polymer substituted amine dispersant additives".
- 30/Del/91 Motorola Inc., "Encryption apparatus".

The 16th January, 1991

- 31/Del/91 Manzoor Ahmad, "Revolving tool bit holder".
- 32/Del/91 E. R. Squibb & Sons, Inc., "Boronic acid adducts of rhenium dioxime and technetium-99M dioxime complexes containing a biochemically active group".
- 33/Del/91 PKS Engineering GmbH & Co. KG., "Gas deflector".
- 34/Del/91 The University of Sydney, "A gas cooled cathode for an arc torch". (Convention date 17th January, 90) (Australia).
- 35/Del/91 The Gillitte Co., "Shaving system".

The 17th January, 1991

- 36/Del/91 Council of Scientific & Industrial Research, "An improved process for the preparation of coal tar pitch containing low quinoline-insolubles".
- 37/Del/91 Council of Scientific & Industrial Research, "An improved process for the preparation of copper and aluminum activated zinc cadmium sulphide phosphors for use in color television picture tubes as green component".

The 17th January, 1991

- 38/Del/91 National Research Development Corporation, "A catalytic converter".
- 39/Del/91 Saroj Chooramani Gopal, "A manual throat secretion suction device".
- 40/Del/91 Saroj Chooramani Gopal, "A posterior urethral valve ablator".
- 41/Del/91 Stanadyne Automotive Corp., "Fuel injector method and apparatus".
- 42/Del/91 Gas Research Institute, "Cement shaft suspension furnace and process".

The 18th January, 1991

- 43/Del/91 BP Chemicals Ltd., "Stabilised polymers and their preparation". (Convention date 20th January, 90) (U.K.).
- 44/Del/91 Gec Alstom S. A., "Shunt reactor switch producing low voltage surge".
- 45/Del/91 Mechanical Plastics Corporation, "Hollow wall anchor with enhanced holding strength".
- 46/Del/91 Mechanical Plastics Corporation, "Over center hollow wall anchor with enhanced holding strength".

The 21st January, 1991

- 47/Del/91 Paccio Industrial Corporation, "A carburetor for use with the engine of a two wheeler vehicle".
- 48/Del/91 Chitradurga Serinivasan Prasanna Kumar, "An improved fluorescent lamp design".
- 49/Del/91 Chitradurga Srinivasan Prasanna Kumar, "An improved electrode design of fluorescent lamps".
- 50/Del/91 Chitradurga Srinivasan Prasanna Kumar, "An improved starter for fluorescent lamps".
- 51/Del/91 Trotrak (Development) Ltd., "Improvements in or relating to transmissions of the toroidal-race rolling-traction type". (Convention date 30th January, 90) (U.K.).
- 52/Del/91 Motorola Inc., "In building microwave communication system permits frequency reuse with external point-to-point microwave systems".
- 53/Del/91 Institut Biokhimi I Fiziologii Mikroorganizmov Akademii Nauk SSSR. "Biological reactor".
- 54/Del/91 Exxon Chemical Patents, Inc., "Novel ethylene alphaolefin polymer substituted mono- and dicarboxylic acid dispersant additives".

The 22nd January, 1991

- 55/Del/91 Gec Alstom S. A., "A puffer-type medium or high tension circuit breaker".
- 56/Del/91 International Business Machines Corporation, "An apparatus and method for loading a system reference diskette image from a system partition in a personal computer system".
- 57/Del/91 Shell Internationale Research Maatschappij B.V., "Process to produce tack free rubber particles".
- 58/Del/91 The Procter & Gamble Co., "Absorbent structures containing stiffened fibers and superabsorbent materials".
- 59/Del/91 The Procter & Gamble Co., "Confectionery product". (Convention date 24th January, 90) (U.K.).

The 23rd January, 1991

- 60/Del/91 Council of Scientific & Industrial Research, "A device for pneumatic extrusion of dough into sheets or strands".

- 61/Del/91 Council of Scientific & Industrial Research, "A die useful for extrusion of dough into sheet of uniform width and thickness".
- 62/Del/91 Council of Scientific & Industrial Research, "An improved continuous chapathi making machine".
- 63/Del/91 Council of Scientific & Industrial Research, "A dusting and cutting-machine useful for chapathi and other similar food products".
- 64/Del/91 Council of Scientific & Industrial Research, "An oven for baking and puffing of chapathies and similar food products".

The 23rd January, 1991

- 65/Del/91 Council of Scientific & Industrial Research, "A process for the deoiling of effluent water generated in oil fields using a novel cationic polyelectrolyte containing of quaternary nitrogen atom". [Divisional date 7th November, 1988].
- 66/Del/91 Japan Tobacco Inc., "Method and apparatus for producing sheet tobacco".
- 67/Del/91 The Procter & Gamble Co. & Novo Nordisk A/S., "Bleaching detergent composition".
- 68/Del/91 Orbital Engine Co. Proprietary Ltd., "Improvements relating to nozzles for fuel injectors". (Convention date 26th January, 90) (Australia).

The 24th January, 1991

- 69/Del/91 Alleward Industries, "A device for fixing a railway rail on a support made of concrete or metal".
- 70/Del/91 Jacques Wybauw, "Framework for multiple-storey building and building comprising such a framework".

The 25th January, 1991

- 71/Del/91 Saroj Chooramani Gopal, "A device for elongation of oesophagus".
- 72/Del/91 Em Cee Cee Sports Agencies (P) Ltd., "A racket frame for playing of games such as tennis, squash, badminton and the like".
- 73/Del/91 Exxon Chemical Patents, Inc., "Dynamically cured thermoplastic olefin polymers and process for producing the same".
- 74/Del/91 Pfizer Inc., "Triazole antifungal agents". (Convention date 2nd February, 90) (U.K.).
- 75/Del/91 Salzgitter Maschinenbau GmbH, "Rotor for impact crushers or hammer mills".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13

The 28th January, 1991

- 28/Bom/91 Jamshed K. D. Tamboli. Pivoted crank-pedals for human-powered vehicles.

- 29/Bom/91 Jayant Sudhakar Kulkarni. Hydromatic spark distributor for automatic advance and retard of ignition timing in multi-cylinder carburated I. C. Engines.

The 29th January, 1991

- 30/Bom/91 Navinchandra Ramchandra Tripathi. A symbol system machine of communication for the dumb and the deaf.

The 31st January, 1991

- 31/Bom/91 Bhabha Atomic Research Centre. A porous electrode for use in a filter-press type high pressure alkaline water electrolyser cell module and a method of manufacturing the same.

- 32/Bom/91 Bhabha Atomic Research Centre. An integral bipolar plate for use in a filter-press type high pressure alkaline water electrolyser cell module and a method of manufacturing the same.

- 33/Bom/91 Bhabha Atomic Research Centre. An improved filter-press type high pressure alkaline water electrolyser cell module.

- 34/Bom/91 Jayant Rangildas Gandhi. A device for locking telephones and the like instruments.

- 35/Bom/91 Kewalraj & Co. Pvt. Ltd. An improved tooth brush and like devices.

The 1st February, 1991

- 36/Bom/91 Gajera Babubhai Nanubhai Patel & Others. External Wingless Planecar.

- 37/Bom/91 Gajera Babubhai Nanubhai Patel & Others. Solid fuel engine without pollution.

- 38/Bom/91 M/s. Sensitive Industries. Improvements in or relating to timing gears for diesel engines.

ALTERATION OF DATE UNDER SECTION 16

- 168369 : Ante-dated to 30th July, 1985
(740/Mas/88)
- 168370 : Ante-dated to 6th August, 1985
(865/Mas/88)
- 168379 : Ante-dated to 31st May, 1985.
(704/Del/87)

AMENDMENT PROCEEDINGS UNDER SECTION 57

Proposed amendments under Section 57 of the Patents Act, 1970, in respect of Patent Application No. 166952 as advertised in the Gazette of India, dated 29-9-1990 have been allowed.

Proposed amendments under Section 57 in respect of Patent No. 165967 (786/Mas/85) as advertised in the Gazette of India dated 8-9-90 have been allowed.

The amendments proposed by RAPRA TECHNOLOGY LIMITED of SHREWSBURY, SHROPSHIRE, SY-4, 4 NR, ENGLAND in respect of Patent application No. 162621(235/D/82) as advertised in Part III, Section 2 of the Gazette of India dated 20-8-88 have been allowed.

Notice is hereby given that Societe D' Etudes Scientifiques Et Industrielle De Ile-De-France, 46, Boulevard de Latour-Maubourg-75340, Paris, Cedex 07, France, have made an application under Section 57 of the Patents Act, 1970 for amendment of application and specification of their application for Patent No. 167289 for "A process for preparing substituted benzamides and physiologically acceptable acid addition salts thereof". The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600002 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed form 30 within 3 months from the date of the notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition it shall be left within one month from the date of filing the said Notice.

AMENDMENTS PROCEEDINGS UNDER SECTION 57

(1)

Notice is hereby given that MOORE PRODUCTS COMPANY, an American Company of Sumneytown Pike, Springhouse, Pennsylvania 19477, United States of America, have made an application under Section 57 of the Patents Act, 1970 for amendment of application and specification of their application for Patent No. 167439 for "Apparatus for measuring the velocity of flow of a fluid along a predetermined direction. The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition it shall be left within one month from the date of filing the said Notice.

(2)

Notice is hereby given that M/S. REMFRY & SAGAR, REMFRY HOUSE, 8, NANGAL RAYA BUSINESS CENTRE, NEW DELHI-46, have made an application on Form-29 under Section 57 of the Patents Act, 1970 for amendment of specification of their application for patent No. 167/Del/87, (167588) for A REINFORCED COMPOSITE LAMINATE FOR USE IN TIRES, CONVEYOR, BELTS OR THE LIKE AND A TIRE INCORPORATING THE LAMINATE. The amendments are by way of to amend address for service of applicants. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in Form-30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005. If the Written Statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

PRINTED SPECIFICATION CHALLAN

A limited number of printed copies of the undernoted Specifications are available for sale from the PATENT OFFICE, CALCUTTA and its three Branches at Bombay, Madras and Delhi at Rs. 2/- (Rupees two only) per copy.

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PATENTS SEALED

166250 166475 166476 166546 166549 166550 166558 166560 166569
166581 166586 166590 166592 166600 166602 166603 166604 166606
166607 166608 166609 166610 166630 166690 166701 166702 166707
166708 166715 166718 166720 166740 166750 166761 166762 166763
166766 166769 166783 166786 166787 166848

CAL—15

DEL— 8

MAS—11

BOM— 8

REGISTRATION OF ASSIGNMENTS LICENCES, ETC.

Assignments, Licences or other transactions affecting the interest of the original patentees have been registered in the following cases.

The number of each case is followed by the name of the parties claiming interest :—

150619 — Borden Inc.
144859 — Motor Industries Co. Ltd.
159844 — Tampella Keeler Incorporated.
161386 — Kanegafuchi Chemical Industry Co. Ltd.
151110 — Infilco Degremont Inc.
156959 }
157340 } — V.F.R. Inc.
161124 }

145246 }
145776 } — Usha Ismal Limited.
156237 }
157734 } — B.I. (Australia) Pty. Limited.
156897 } — F. Hoffmann La Roche AG.
152686 } — SKW Trostberg Aktiengesellschaft.
155694 }
150738 }
151900 } — Brilent Patentanstalt
151450 } — Asea Kabel AB.
151450 } — Asea Limited.
149307 }
150745 } — Eskla B.V.
151796 } — Enichem Fibre S.p.A.
157197 } — Philip Morris Products Inc.
157598 } — Enichem Elastomeri S. p. A.
158267 } — Dr. Roni Aloni.
157662 } — Ansonia Holdings Corporation.
161906 } — Elpatronis AG.
154573 } — Trelleberg Aktiebolag.
163863 } — Jitendera Shantilal Shah.
158793 } — Ricardo Group PLC.
147631 } — Krupp Industrietechnik GmbH.
159358 } — Kemira Denmark A/S.
154028 } — International Resistive Company Inc.
149859 }
150145 } — Klockner CRA Patent GmbH.
152649 }
153311 } — Enichem Anik S.p.A.
145014 }
145648 } — Paolo Giammarco.
146591 }
158619 } — J.S. Telecom.
156237 } — CSR Investments (Asia) Pte Ltd.
157734 }
163513 } — Clecim, 10.
151725 } — Davy (Distington) Limited.
156966 } — Nova Medical Limited.
158165 } — Esmond Fonseca.
156855 } — Mines & Railways Equipment Mfg. Co. (P) Ltd.
— S.J. Coke Industries Pvt. Ltd.
— Indo Unique Flame Pvt. Ltd.
— Pushpanjali Coal & Coke (P) Ltd.
— Super Coke Industries.
— R.S. Coke Industries.
— Deshlahara Coke Industries (P) Ltd.
— Vandana Private Limited.
— Shri Coal Industries (Pvt.) Ltd.
— Swastika Smokeless Coke Company Private Limited.

RENEWAL FEES PAID

146445 146747 146951 147181 147182 147657 147694 147695 147735
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CESSATION OF PATENTS

152300 152302 152310 152311 152314 152319 152321 152323 152326
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 152692 152703 152707 152709 152714 152716 152718 152730 152731

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 162102 dated the 13th July, 1983 made by Stone & Webster Engineering Corporation on the 6th June, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 6th October, 1990 has been allowed and the said Patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 162101 dated the 28th June, 1983 made by AJO-Stahlbau GmbH & Co. KG on the 21st May, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 29th September, 1990 has been allowed and the said Patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 158315 dated the 15th June, 1982 made by Mitsui Toatsu

Chemicals Incorporated & Toyo Engineering corporation on the 8th May, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 29th September, 1990 has been allowed and the said Patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 161870 dated the 21st June, 1985 made by SKF-Textilmaschinen Komponenten GmbH on the 21st May, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 29th November, 1990 has been allowed and the said Patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 164003 dated the 13th June, 1985 made by Royal Ordnance Plc on the 15th March, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 7th July, 1990 has been allowed and the said Patent restored.

(6)

Notice is hereby given that an application for restoration of Patent No. 158914 dated the 16th April, 1983 made by Chief Controller, Research & Development on the 26th March, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 7th July, 1990 has been allowed and the said Patent restored.

(7)

Notice is hereby given that an application for restoration of Patent No. 163552 dated the 3rd June, 1982 made by Shriram Institute for Industrial Research on the 28th March, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 7th July, 1990 has been allowed and the said Patent restored.

(8)

Notice is hereby given that an application for restoration of Patent No. 158814 dated the 16th March, 1984 made by DLF Universal Limited on the 30th January, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 28th April, 1990 has been allowed and the said Patent restored.

(9)

Notice is hereby given that an application for restoration of Patent No. 163840 dated the 20th August, 1985 made by Shriram Institute for Industrial Research on the 28th March, 1990 and notified in the Gazette of India, Part III, Section 2 dated the 7th July, 1990 has been allowed and the said Patent restored.

(10)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 161860 granted to "Rolf Henning Wilhelm Steinbock for an invention relating to "a fastener apparatus".

The patent ceased on the 12th March, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 12th Jan., 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 23rd May, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(11)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 163078 granted to Eli Lilly and Company for an invention relating to "a process for preparing crystalline Cephalexin hydrochloride monohydrate".

The patent ceased on the 26th November, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 12th January, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 23rd May, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(12)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 163985 granted to Societe Nationale Elf Aquitaine (Production) for an invention relating to "an apparatus for producing geophysical measurements in a bore hole."

The patent ceased on the 21st December, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 12th January, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 23rd May, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(13)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 152029 granted to Tractel Tirfor India Private Limited for an invention relating to "overhead monorail trolley".

The patent ceased on the 8th May, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 12th January, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 23rd May, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(14)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164924 granted to Jyoti Limited for an invention relating to "an improved method of manufacturing high voltage rotating electrical machines with protection against slot discharge damage".

The patent ceased on the 20th October, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 12th January, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 23rd May, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएँ तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की प्रुष्ट संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक प्रुष्ट का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl.: 139 G [GROUP IV (2)]
Int. Cl.: C 01 B 17/04

168361

A PROCESS FOR PRODUCING A FLUID STREAM WITH REDUCED HYDROGEN SULPHIDE CONTENT.

Applicant: ARI TECHNOLOGIES, INC., 600 NORTH FIRST BANK DRIVE, PALATINE, ILLINOIS 60067, AN ILLINOIS CORPORATION UNITED STATES OF AMERICA.

Inventors: (1) DEREK MCMANUS & (2) FREDERICK R. KIN.

Application No. 637/Mas/86, filed on 6th August, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

8 Claims

A process for producing a fluid stream with reduced hydrogen sulfide content comprising continuously removing hydrogen sulfide

from a fluid stream containing hydrogen sulphide by contacting the said fluid stream with an aqueous catalyst solution of a polyvalent metal such as herein described chelated with an aminopolycarboxylic acid chelating agent and containing 3 to 300 gm/litre of a stabilising agent such as hereinbefore described, maintaining the concentration of the said stabilising agent in said catalyst solution throughout the process by adding additional amounts of the said stabilising agent or by withdrawing used solutions if and when required to obtain a fluid stream with reduced hydrogen sulphide content.

Compl. Specn. 32 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 150 B [GROUP XLVIII (1)]
Int. Cl.: F 16 L 19/00

168362

A SWIVEL JOINT BETWEEN TWO LENGTHS OF PIPE.

Applicant: ANSON LIMITED, OF QUEENSWAY NORTH, TEAM VALLEY TRADING ESTATE, GATESHEAD, TYNE & WEAR, NE11 0NX, ENGLAND, A BRITISH COMPANY.

Inventor: ROBERT WILLIAM ANDERSON.

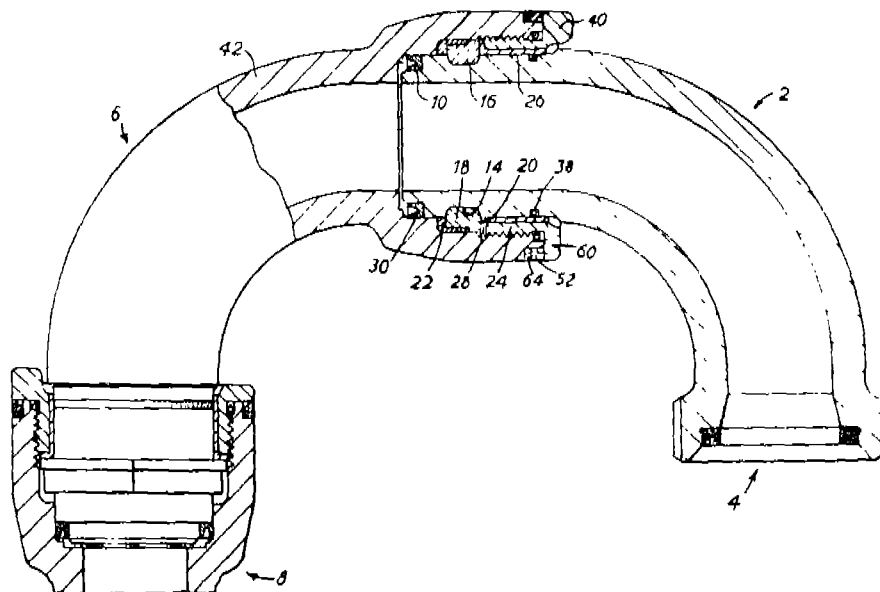
Application No. 710/Mas/86, filed on 3rd September, 1986.

Convention date 5-9-1985 No. 85.22047 (United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

8 Claims

A swivel joint between two lengths of pipe, comprising a male connecting piece on the end of one length of pipe (2) and a corresponding female connecting piece on the end of the other length of pipe (6), the male connecting piece having a circumferential groove (14) formed in the outer wall thereof having a substantially annular split collet (16, 18), the inner wall of which projects radially outwardly of the outer surface of the male connecting piece to provide an abutment surface (20), and an externally threaded nut (24) surrounding the male connecting piece and having a front face adapted to react against said abutment surface of the split collet, the internal surface of the female connecting piece being screw threaded to correspond with the external thread on said nut (24) and being recessed to receive therein, in bearing engagement, the joint further comprising at least one substantially annular seal (30) disposed between opposed, radially spaced surfaces of the male and female connecting pieces, a cylindrical bearing member (26) having an elongate sleeve portion providing a force fit between the male connecting piece and the externally threaded nut (24) and an annular flange (28) extending radially of the joint and positioned between the front face of the nut (24) and the abutment surface (20) of the split collet (16, 18), the arrangement being such that, on location of the male connecting piece within the female connecting piece and on screwing of the nut (24) on the male connecting piece into the female connecting piece, a radial seal is effected between the two connecting pieces so as to enable the said connecting pieces to swivel relative to one another about the central longitudinal axis of the joint.



Compl. Specn. 20 Pages.

Drsg. 2 Sheets.

Ind. Cl.: 48 B [GROUP LVIII (3)]
Int. Cl.: B 65 H 75/34

168363

AN ORGANIZING TRAY ASSEMBLY FOR STORING OPTICAL FIBER SPLICES.

Applicant: PREFORMED LINE PRODUCTS COMPANY, 660 BETA DRIVE, CLEVELAND, OHIO 44143, A COMPANY INCORPORATED IN THE STATE OF OHIO, U.S.A.

Inventors: (1) JOSEPH THOMAS KRAFCIK, (2) RICHARD JONATHAN BARNES & (3) ERWIN HERBERT GOETTER.

Application No. 737/Maa/86, filed on 18th September, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

17 Claims

An organizing tray assembly for storing optical fiber splices comprising:

(a) an elongated, generally channel shaped main frame member with a bottom wall and a pair of spaced upwardly extending side walls;

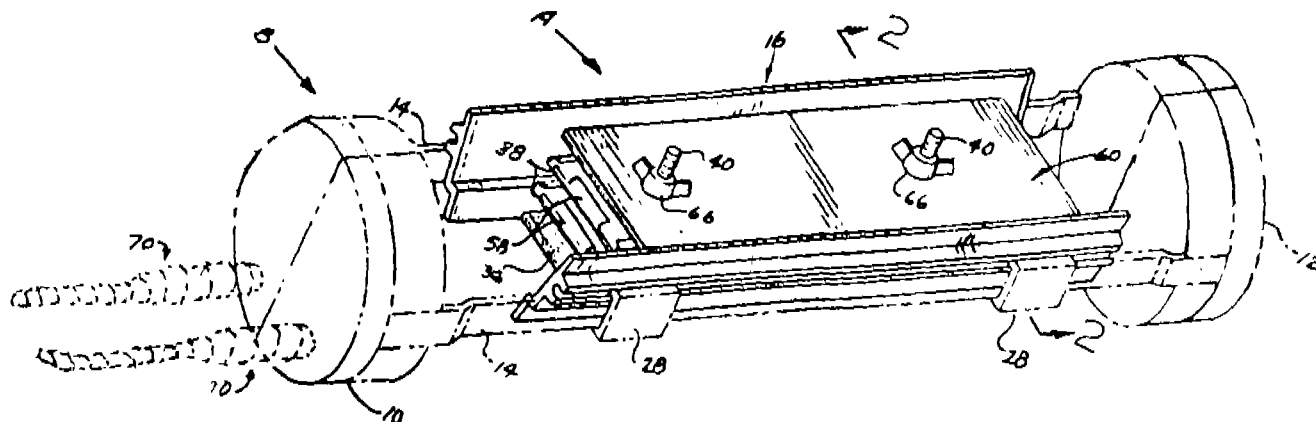
(b) at least one support member extending generally vertically upwardly from said bottom wall at a location between said side walls;

(c) at least one splice tray member comprising a generally flat, rectangular base with upwardly extending side flanges along its longitudinal edges, the width of said base being slightly less than the distance between said upwardly extending side walls of said channel shaped member;

(d) at least one opening for permitting said tray member to be removably received on said support member;

(e) at least one first spacer member associated with said support member for permitting said tray member to maintain a predetermined distance above said bottom wall; and,

(f) at least one fastener for releasably retaining said at least one tray member on said support member.



Compl. Specn. 16 Pages.

Drsg. 1 Sheet.

Ind. Cl.: 32 B [GROUP IX (1)]
Int. Cl.: C 07 C 2/22

168364

A PROCESS FOR TRIMERIZATION OF AN OLEFIN.

Applicant: UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, WITH THE OFFICES AT 39 OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, UNITED STATES OF AMERICA.

Inventor: JOHN ROBERT BRIGGS.

Application No. 756/Mas/86, filed on 25th September, 1986.

Appropriate Office for Opposition Proceedings¹ (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

8 Claims

A process for the trimerization of an olefin selected from the group consisting of ethylene, propylene, 1-butene, and mixtures thereof characterized in that passing the said olefin with a catalyst comprising the reaction product of (i) a chromium compound such as hereinbefore defined (ii) a hydrocarbyl aluminum having the general formula R_3Al wherein each R is an alkyl, cycloalkyl, aryl, or hydride radical; at least one R is a hydrocarbyl radical; two or three R radicals can be joined in a cyclic radical forming a heterocyclic structure; each R can be alike or different; and each R, which is a hydrocarbyl radical, has 1 to 20 carbon atoms, and preferably 1 to 10 carbon atoms hydrolysed with about 0.8 to about 1.1 moles of water per mole of aluminum compound; and (iii) a donor ligand selected from the group consisting of hydrocarbyl isonitriles, amines, and ethers wherein the aluminium to chromium mole ratio is in the range of up to about 200 to one and the ligand to chromium mole ratio is in the range of up to about 100 to one and under known trimerization process conditions.

Compl. Specn. 25 Pages.

Drq. Nil.

Ind. Cl.: 107 C [GROUP XLVI (2)]
Int. Cl.: F 02 F 1/00

168365

ENGINE HAVING A MULTIPIECE BLOCK

Applicant: CATERPILLAR INC., OF 100 N.E., ADAMS STREET, PEORIA, ILLINOIS 61629-6490, U.S.A., A CORPORATION DULY ORGANISED AND INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventor: BENNY (NM) BALLHEIMER.

Application No. 769/Mas/86, filed on 29th September, 1986.

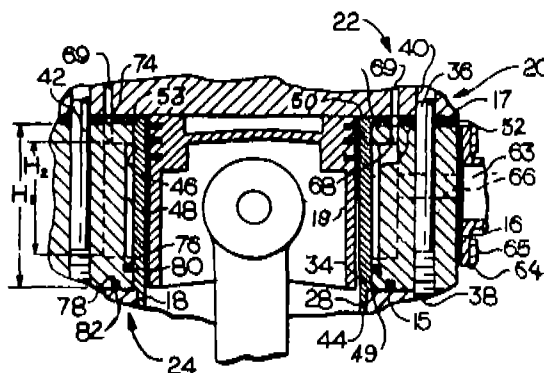
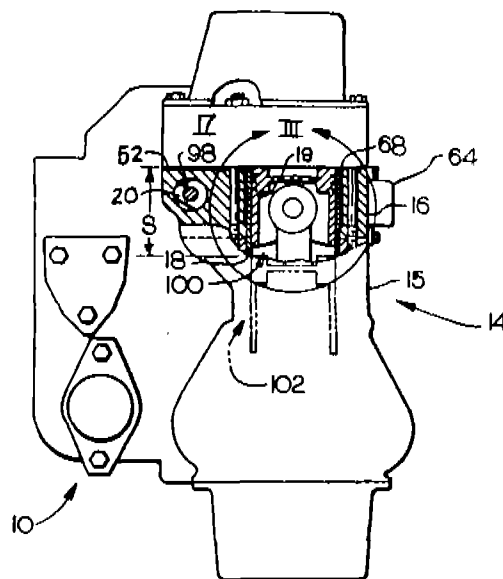
Convention date: March 6, 1986; (No. 503, 446; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

10 Claims

An engine having a multipiece block comprising a cylinder head (17); a multipiece block having a bottom block portion (15) having a bore (28) therein and a top block portion (16) positioned between the

bottom block portion (15) and the cylinder head (17) and having a bore (34) substantially coaxial with the bore (28) in the bottom block portion (15); means for attaching (23) the cylinder head (17) to the bottom block portion (15), and a midsupported cylinder liner (18) having an upper portion (46) positioned within the bore (34) of the top block portion (16) and a lower portion (44) extending into the bore (28) of the bottom block portion (15) and an annular support surface (49) positioned between the said upper portion (46) and the said lower portion (44), the support surface (49) seating on the bottom block portion (15) and the midsupported cylinder liner (18) being fixedly biased between the cylinder head (17) and the bottom block portion (15); a piston and ring assembly (19) slidably positioned within the midsupported cylinder liner (18) and movable between a top position (100) and a bottom position (102) to define a stroke "S" of the piston and ring assembly (19), the top block portion (16) having a height "H₁" within the range of 30% to 100% of the stroke "S"; and a liquid cooling system (21) having a liquid cooling transfer pump (58), a heat exchanger (54), an annular space (48) formed between the upper portion (46) of the cylinder liner (18) and the bore (34) of the top block portion (16); a plurality of liquid cooling passages in the cylinder head (17) connected in liquid flow relationship with the annular space (48), the transfer pump (58) and the heat exchanger (54); and means for sealing (24) provided between the top block portion (16) and the cylinder head (17) between the top block portion (16) and the midsupported cylinder liner (18), and between the top block portion (16) and the bottom block portion (15).



Compl. Specn. 15 Pages.

Drq. 2 Sheets.

Ind. Cl.: 116 C [GROUP XLIX]

168366

Int. Cl.: B 65 G 15/08

BELT CONVEYOR SYSTEM.

Applicant : CONTINENTAL GUMMI-WERKE AKTIENGESELLSCHAFT, OF KONI GSWORTHER PLATZ 1, 3000 HANNOVER, FEDERAL REPUBLIC OF GERMANY.

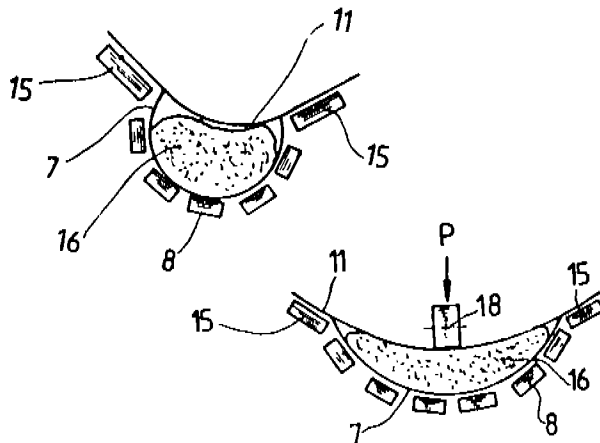
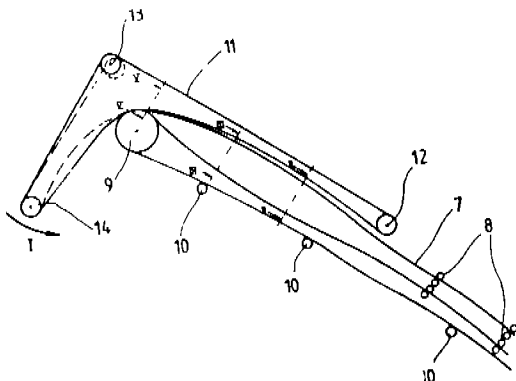
Inventor : ENGST, WILHELM, DIPL.-ING.

Application No. 816/Mas/86, filed on 15th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

10 Claims

A belt conveyor system having a conveyor belt which is closable in sections to form a tubular strip with edge regions overlapping one another, characterised by an endless cover strip (11) which is associated with the conveyor belt (7) in the transitional area between a closed tubular section and a guide roller (9, 19) which guides the belt in a flat, level manner; the endless cover strip (11) passes over at least three guide rollers (12, 13, 14), and the lower portion of the cover strip extends into the progressively opening tubular cross-section of the conveyor belt and is supported at both ends on the belt edges whilst resting directly on the material being conveyed (16).



Compl. Specn. 12 Pages.

Drgs. 2 Sheets.

Ind Cl.: 80-I-[GROUP VI]

168367

Int. Cl.: C 02 F 11/00

DEVICE FOR THICKENING A SOLID-LIQUID SUSPENSION.

Applicant : DEGREMONT, A FRENCH BODY CORPORATE OF 183, AVENUE DU 18 JUIN 1940, 92508 RUEIL-MALMAISON CEDEX, FRANCE.

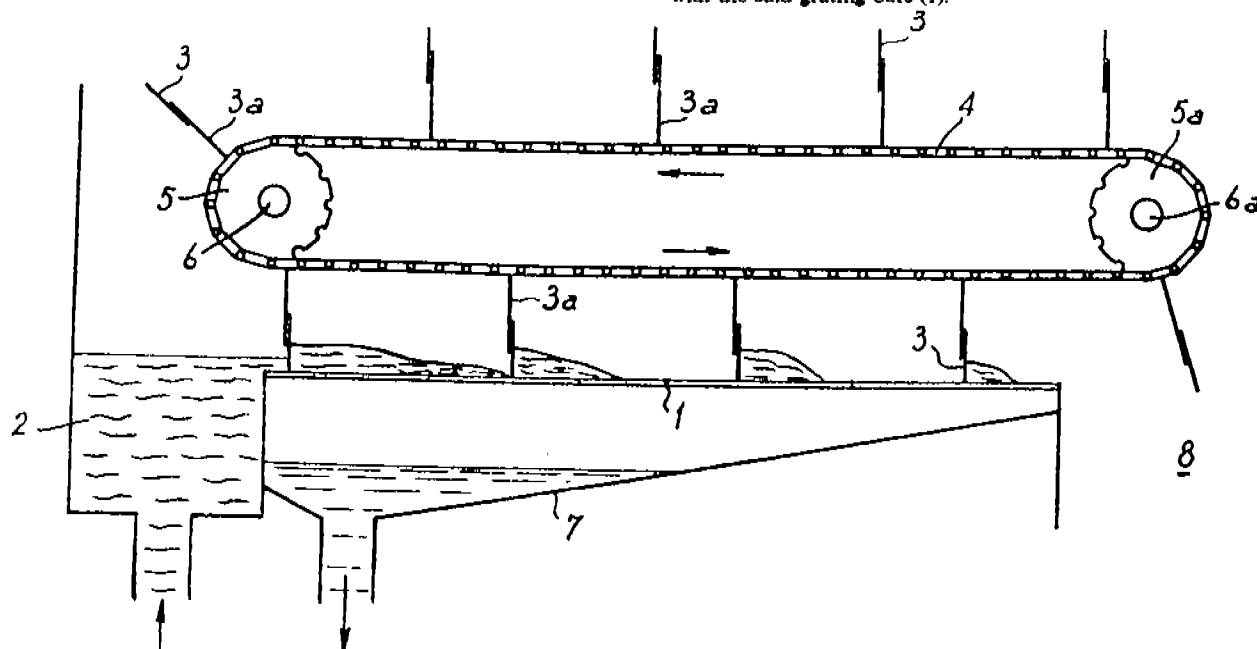
Inventors : (1) ANDRE HAUBRY, (2) ROBERT CORNICE AND (3) JEAN-CLAUDE FORGEAT.

Application No. 546/Mas/86, filed on 28th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

3 Claims

A device for thickening a solid-liquid suspension by continuous separation of a portion of the liquid phase of the said suspension comprising a grating consisting of bars (1) which are parallel to each other and arranged in the direction of the flow of the said solid-liquid suspension, the said grating being plane and stationary and equipped with a scraping system (4, 5, 5a, 6, 6a) consisting of flexible strips (3) disposed perpendicular to the said grating bars (1) and flush with the said grating bars (1).



Compl. Specn. 6 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 201 D [GROUP II (4)]
Int. Cl.⁴: C 02 F 3/28

168368

N APPARATUS FOR THE ANEROHIC TREATMENT OF WASTE WATER.

Applicant: DEGREMONT (A FRENCH BODY CORPORATE), OF 183, AVENUE DU 18 JUIN 1940, 92508 RUEIL-MALMAISON CEDEX, FRANCE.

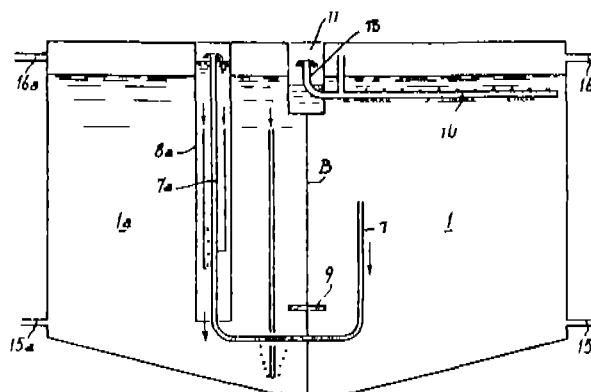
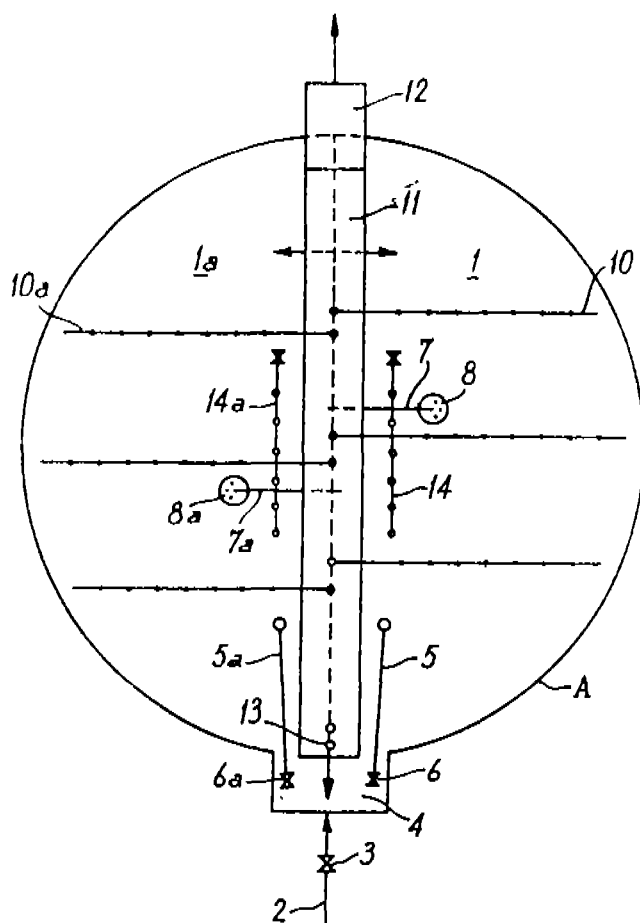
Inventors: JEAN DUROT & ROGER NICOL.

Application No. 848/Mas/86, filed on 28th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

4 Claims

An apparatus for the anaerobic treatment of waste water comprising an enclosure (A) having a median partition (B) to form two cells (1, 1a), each cell is connected to a distribution through (4) through ducts (5, 5a) each of the said cells have a gas-lift transfer device (7, 7a) with 2 branches, one of the said branch is open to the cell in which it is placed and the other branch is provided with a ventilation shaft (8, 8a), a balancing conduit (9) interconnect the said cells (1, 1a) at their base, the upper portion of each cell has at least one perforated manifold (10, 10a) connected to a collecting means having a draining system (13).



Compl. Specn. 8 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 70 C (5) [GROUP LVIII (5)]
Int. Cl.⁴: B 01 J 39/08

168369

AN IMPROVED PROCESS FOR PREPARING AN INSOLUBLE STRONG-ACID CATION-EXCHANGE RESIN IN ACID FORM.

Applicant: THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventor: MICHAEL J + FAZIO.

Application No. 740/Mas/88, filed on 25th October, 1988.

Divisional to Patent No. 164959 (589/Mas/85); Ante-dated to July 30, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

3 Claims

In a process for preparing an insoluble strong-acid cation-exchange resin in acid form modified by the partial neutralization of its cation-exchange capacity with an aminoalkanethiol wherein the improvement is in contacting the said partially neutralized resin with an aldehyde or ketone at a temperature of 25°C to 50°C sufficient to convert the aminoalkanethiol moieties to thiazolidine moieties.

Compl. Specn. 9 Pages.

Drg. Nil.

Ind. Cl.: 32 F [GROUP IX (1)]
Int. Cl.⁴: C 08 B 15/00

168370

A METHOD OF MANUFACTURING AN ARTICLE SUCH AS A FIBRE OR FILM HAVING A BASE OF AT LEAST ONE CELLULOSE DERIVATIVE.

Applicant: MICHELIN RECHERCHE ET TECHNIQUE S.A., OF SCHUTZENMATTSTRASSE, 77, CH-4051, BALE 3, SWITZERLAND, A SWISS COMPANY.

Inventors : PHILIPPE VILLAIN & CLAUDE JANIN

Application No. 865/Mas/88, filed on 2nd December, 1988.

Divisional to Patent No. 165270 (612/Mas/85); Ante-dated to August 6th, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

7 Claims

A method of manufacturing an article such as fibre or film comprising preparing a composition having a base of at least one cellulose derivative containing cellulose ester groups, at least one part of the ester groups being formate groups in accordance with the method of preparing the composition claimed in the patent application number 612/Mas/85, extruding the said composition into a coagulation bath containing a solvent capable of precipitating the cellulose material and dissolving the organic and inorganic acid materials, eliminating at least a part of the products other than cellulose derivative or derivatives in a known manner to obtain an article such as fibre or a film.

Compl. Specn. 100 Pages.

Drgs. 8 Sheets.

Ind. Cl. : 107 G (XIVIC 2) & 80 K VI

168371

Int. Cl.⁴ : F 01 P 11/00 & 11/12.

GAS FILTRATION-UNIT FOR INTERNAL COMBUSTIONS ENGINES.

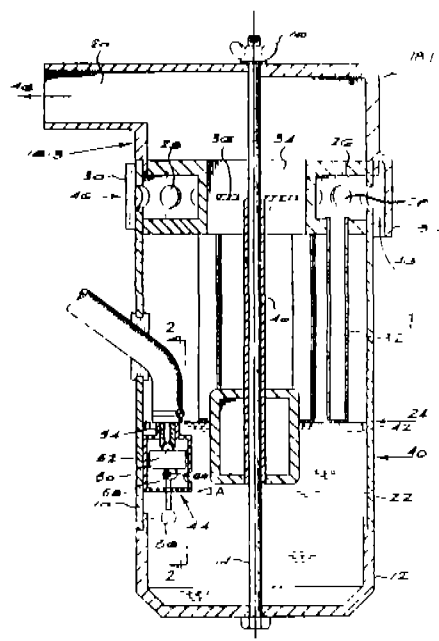
Applicant & Inventor : GUY FELIX MIGNOT, A CITIZEN OF MAURITIUS, OF MIGNOT INDUSTRIES, C/O TELBOT FISHING, OLD PAVILION STREET NEW MAURITIUS DOCKS, PORT LOUIS, MAURITIUS.

Application for the Patent No. 137/Del/87, filed on 17th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

A gas filtration unit for internal combustion engines comprising a liquid container (10), at least one intake gas inlet tube (32) extending from a source of inlet gas downwardly into the container (10) and opening at a high liquid level (24) within the container (10), at least one filtered gas outlet (34) located above the high liquid level (24) in the container (10) and a liquid level control in the container (10) constituted by a mechanical level variation device by means of which the liquid level is varied, in dependence on the gas flow through the container (10), between the high liquid level and a low liquid level (40), both liquid levels being below the inlet (24) tube opening (42), characterised in that said liquid level control comprises a liquid displacer element (38) located within the liquid (22) in the container (10), said liquid displacer element (38) being connected to a choke vane (36) located within the outlet tube (34) whereby gas flow through said outlet tube (34) past said choke vane (36) causes said choke vane (36) to rise with consequent rising of said connected displacer element (38) from said liquid.



Compl. Specn. 9 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 55 E 4, 32 C

168372

Int. Cl.⁴ : B 02 B 3/00, B 02 C 13/00, C 07 G 17/00.

PROCESS FOR OBTAINING HIGH PURITY MUCILAGE FROM PLANTAGO PSYLLIUM SEEDS.

Applicant & Inventor : FELIPE SALETE, A MEXICAN CITIZEN OF AV. ANO DE JUAREZ 198, COL. GRANJAS SAN ANTONIO, DELEG. IZTAPALAPA, MEXICO, D.F. 09070, MEXICO.

Application for the Patent No. 157/Del/87, filed on 24th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

5 Claims

A process for obtaining high purity mucilage from *Plantago Psyllium* seeds, which essentially comprises steps of :

(a) subjecting cleaned integral *plantago psyllium* seed to grinding to loosen the husk from the core of the grain;

(b) removing the husk from the core of the seeds in order to form two separate streams;

(c) repeating steps (a) and (b) the necessary number of times to accomplish an optimal husking of the seeds; and

(d) recovering the husk having a high content of mucilage, as the product of the process, characterised in that said grinding is achieved by pure impact without rubbing, at an impact speed of from 30 to 40 m/sec, and during the grinding step, maintaining the individual seeds individually spaced from each other in order that the strength of the impacts thereon may be the same for each seed, thereby loosening and separating the husk from the core of the grain without disintegrating the latter.

Compl. Specn. 24 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 55F & 144A
Int. Cl. : A61K, 9/78, C05 & G3/00.

168373

A PROCESS FOR SOLVENTLESS COATING OF DRUGS FERTILIZERS INSECTICIDES FUELS AND FOODS.

Applicant & Inventors : ANIL KUMAR MADAN AND RAJIV SINDHI BOTH INDIAN NATIONALS OF PHARMACY PUSHP VIHAR, NEW DELHI-110017.

Application for Patent No. 214/Del/87, filed on 11th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

2 Claims

A process for coating core materials such as herein described in the form powders, crystals, granules, pills, pellets or tablets with melt-able coating materials such as herein described by placing the core material optionally cooled to any temperature below 17.5°C in a basket consisting of a screen which constitutes the bottom of the basket and with a pore size less than that of the size of the core material, the screen being provided with a frame, bringing the core material placed in the basket to come in contact with molten coating material, allowing the core material and molten coating material to remain in contact with each other for a brief period during which part of the molten coating material will congel or solidify around core particles, separating the coated core material in the basket from the excess of molten coating material through the screen, subjecting the screen to vibration of such an amplitude and frequency to allow the coated particles to remain in relative movement against each other without causing any serious damage to the coatings, continuing the vibration till rigidization of coating has taken place and there is no tendency to agglomerate, and removing the coated material from the basket.

Compl. Specn. 14 Pages.

Drg. 1 Sheet.

Ind. Cl. : 136 E XIII
Int. Cl. : A 45C-11/32.

168374

A KEY AND CARD COMBINATION FORMED MOLDED PLASTIC MATERIAL AND PRESENTING A ONE-PIECE UNITARY MOLDING.

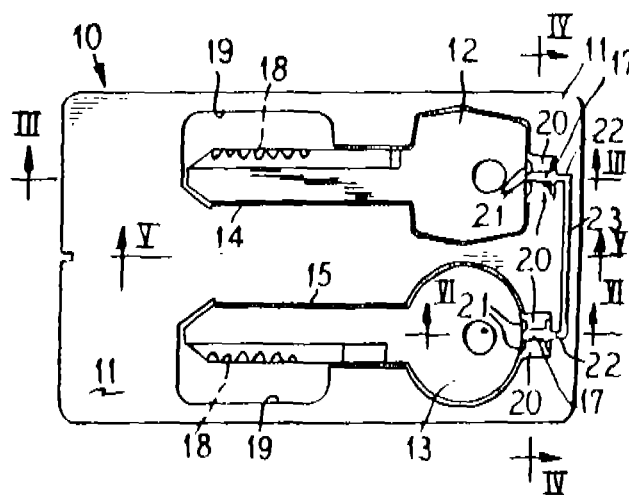
Applicant & Inventor: DONALD FRANCIS ALMBLAD, A U.S. CITIZEN OF 5422 EAST SHAW BUTTE, SCOTTSDALE, ARIZONA 85254, UNITED STATES OF AMERICA.

Application for Patent No. 276/Del/87, filed on 31st March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

9 Claims

A Key and card combination (10) formed from molded plastic material and presenting a one-piece unitary molding, comprising a key-carrying card (11) with a key-shaped recess socket in the plane of the card; a key (12, 13) separably located in the recess socket and formed in one piece with the card, and as an integral part of said molding; and integral multidirectional hinge means comprising a unitary part of said moldings and formed from the same material as the key and card and integrally connecting an edge of a head end of the key to an edge of the card in said socket (15) and enabling the key to be swing out from and swung back into the plane of the card; and said hinge means (17) comprising a generally rod-shaped elongated element permitting the key to be not only swung as aforesaid, but enabling twisting of the key relative to the card on and about said hinge.



Compl. Specn. 10 Pages.

Drg. 1 Sheet.

Ind. Cl. : 140 A; XI (2)
Int. Cl. : C 10M 125/24.

168375

LUBRICATING COMPOSITION CONTAINING AN ADDITIVE DERIVED FROM O, O-DIALKYL DITHIOPHOSPHORIC ACID AND A NORBORNYL REACTANT AND METHOD FOR THE PREPARING THEREOF.

Applicants : THE LUBRIZOL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 29400 LAKE-LAND BOULEVARD, WICKLIFFE, OHIO 44092, UNITED STATES OF AMERICA.

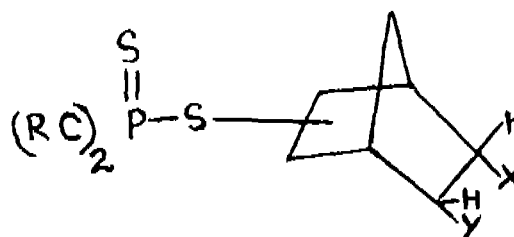
Inventors : RICHARD MICHAEL LANGE, WILLIAM CHARLES TRITT, STEPHEN AUGUSTINE DI BIASE.

Application for Patent No. 335/Del/87, filed on 16th April, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

12 Claims

A lubricating composition comprising from 90% to 99.9% by weight of an oil of lubricating viscosity such as herein described and from 0.01% to 10% by weight as an extreme pressure and anti-wear agent of a norbornyl dialkyl dithiophosphate adduct of the formula I.



Formula I

of the accompanying drawings wherein R is, independently, alkyl or aryl and X and Y are the same or different and are hydrogen, carboxy, hydrocarbyl carboxy, cyano, aldehyde, hydrocarbyl keto, N-substituted carboxamide, thio- or dithiocarbamate, thioamide, thioacid or ester, a hydrocarbyl phosphorus-containing radical, or taken together are a dicarboxylic anhydride, imide, or N-hydrocarbyl substituted imide.

Compl. Specn. 42 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 94 I.

168376

Int. Cl.: C 13D 1/02.

IMPROVED APPARATUS FOR EXTRACTING JUICE FROM SUGARCANE.

Applicant: APPROPRIATE TECHNOLOGY DEVELOPMENT ASSOCIATION, OF POST BOX NO. 311, GANDHI BHAWAN, LUCKNOW-226001, U.P. INDIA, AN ASSOCIATION REGISTERED UNDER THE REGISTRATION OF SOCIETIES ACT, 1860.

Inventors: PURNENDU NARAYAN AGRAWAL & VINOD KUMAR SHARMA.

Application for Patent No. 438/Del/87, filed on 20th May, 1987.

Complete Specification left on 12th October, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

An improved apparatus for extracting juice from sugarcane comprising a cutter (2) for cutting sugarcane into cylindrical pieces, a feed box which receives the cut cylindrical sugarcane pieces from the cutter and in turn feeds them by a Feeder worm to a Screw Press Extractor working on 'Screw press principle' having mounted on a common shaft two worms (9) and three tapered collars (10), the first worm being mounted between first and second tapered collar and the second worm being mounted between second and third tapered collar, for efficient and proper extraction of the juice, the said Extractor being surrounded by a cage box and a box being placed beneath the said Extractor to receive the extracted juice.

Provisional Specification 4 Pages.

Compl. Specn. 8 Pages.

Drgs. 3 Sheets.

Ind. Cl.: 35 E.

168377

Int. Cl.: C04B, 35/10.

AN IMPROVED PROCESS FOR THE MANUFACTURE OF SINTERED SYNTHETIC HIGH ALUMINA AGGREGATES.

Applicant: COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors: SACHIDANANDA KUMAR, GOUTAM BANERJEE, RAM NARYAN SINGH, SITAL PRASAD BANERJEE.

Application for Patent No. 486/Del/86, filed on 3rd June, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

17 Claims

An improved process for the manufacture of sintered synthetic alumina aggregates having an alumina content in the range of 58-86% which comprises intimately mixing aluminous material having very low silica, iron and alkali contents and traces of calcium/magnesium/titanium oxides having refractiveness above Orton

cones 42 (around 2000°) such as herein described with clay with low value of iron oxide/calcium/magnesium/titanium oxides & very low values in alkalis & refractiveness Orton ranging from 30-35 such as herein described in the presence or absence of mineraliser/doping agent such as alkaline earth oxides, homogenising the mixture in a dispersing medium to reduce the particle size to less than 20 microns, removing the dispersing media air drying the slurry and mixing the dried slurry with a solution of green bond selected from mollasses/starch/flour or the like, moulding the green bonded mixture to the shape of a thin-walled hollow-ware under the combined action of vacuum and pressure compaction to eliminate trapped air/gas, drying followed by firing the hollow-wares in down-draft intermittent kiln or any other kiln, capable of reaching a temperature of 1400°C—1550°C and the fired hollow-wares are crushed, ground, demagnetised and sieved.

Compl. Specn. 22 Pages.

Drg. Nil.

Ind. Cl.: 84 B [XXXII (2)].

168378

Int. Cl.: C 10 L 1/14.

LIQUID FUEL COMPOSITIONS.

Applicants: EXXON CHEMICAL PATENTS INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF 1900 EAST LINDEN AVENUE, LINDEN, NEW JERSEY 07036, UNITED STATES OF AMERICA.

Inventor: JUNE KATHLEEN COSTELLO.

Application for the patent No. 630/Del/87, filed on 24th July, 1987.

Convention Date July 29/86/8618397/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

6 Claims

A liquid fuel composition comprising a major proportion by weight of a distillate fuel containing between 4 and 10 wt. % wax at 10°C below cloud point and containing substantially no paraffins longer than n-triacontane, a low temperature flow improver of the kind such as herein described in an amount of 0.001 to 2.0 wt. % based on the weight of the distillate fuel and added n-alkanes to provide alkanes having at least 24 carbon atoms in an amount greater than 0.35 wt. % of the fuel.

Compl. Specn. 33 Pages.

Drg. Nil.

Ind. Cl.: 55 Ea.

168379

Int. Cl.: A61K 33/42.

METHOD OF FORMING A SOLUTION OF A NON-TOXIC WATER-SOLUBLE PHARMACEUTICALLY ACCEPTABLE COMPOUND DERIVATIVE OF PEROXYDIPHOSPHORIC ACID.

Applicant: COLGATE-PALMOLIVE COMPANY, OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventor : ABDUL GAFFAR.

Application for Patent No. 704/Del/87, filed on 13th Aug., 1987.

Divisional to patent Application No. 437/Del/85, filed on 31st May, 1985.

Ante-dated to 31st May, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

2 Claims

A method of forming a solution of a non-toxic water-soluble pharmaceutically/acceptable compound derivative of peroxodiphosphoric acid such as herein described suitable for stomach administration which comprises sterilizing in a manner as herein described deionized distilled water to be non-pyrogenic and then adding thereto a phosphate buffer and said compound derivative of peroxodiphosphoric acid and sodium chloride.

Compl. Specn. 20 Pages.

Ind. Cl. : 55 D₂ [XIX(1)]

168380

Int. Cl. : A01N 63/00 & 63/02.

A PROCESS FOR THE PREPARATION OF BIO INSECTICIDE.

Applicant : BALAMANI BEZBARUAH, SCIENTIST, OF REGIONAL RESEARCH LABORATORY, JORHAT-785006, ASSAM, INDIA, AN INDIAN CITIZEN.

Inventor : BALAMANI BEZBARUAH.

Application for the Patent No. 1110/Del/87, filed on 22nd December, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

9 Claims

A process for the preparation of bio insecticide which comprises growing special mutant designated as RRL (Jorhat) 3 of *Arthrobacter* strain obtained from tea soil, in an aqueous or solid culture medium, containing agarose, alginate or sepharose, suspending the strain in a solution of calcium chloride overnight and thereafter in a medium containing conventional sources of carbohydrate, potassium, magnesium, nitrogen phosphorous fertilizer chemicals and recovering the bio-insecticide from the said medium by solvent extraction/distillation.

ADVANTAGE : Bio insecticide act specifically on target Organisms and have no toxic residue.

Compl. Specn. 7 Pages.

Drg. Nil.

CLASS : 9-E.

168381

Int. Cl. : H 01 1 1/00, 31/00.

A PROCESS FOR PREPARING HYDROGENATED AMORPHOUS SILICON ALLOYS.

3—G—507 GI/90

Applicant : SOLAREX CORPORATION, OF 1335 PICCARD DRIVE, ROCKVILLE, MARYLAND 20805, U.S.A.

Inventor : CHRLES ROBERT DICKSON.

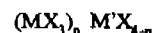
Application No. 123/Cal/1987, filed on February 13, 1987.

Complete Specification left on 8th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

15 Claims

Process for preparing an improved hydrogenated silicon alloy deposited on a substrate, such as herein described, which comprises depositing a film of known hydrogenated amorphous silicon alloy into the substrate in a deposition chamber into which a deposition gas mixture such as herein described is introduced characterised in that said deposition gas mixture includes at least one compound of formula



wherein M and M' are different Group 4A atoms selected from the group of silicon, germanium, tin and lead, at least one of M and M' is silicon, X is hydrogen, halogen or mixtures thereof, and n is an integer between 1 and 4, inclusive.

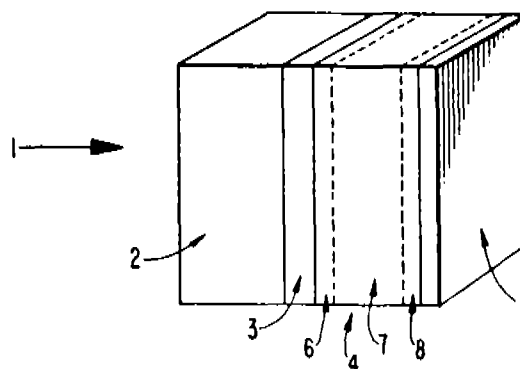


Fig. 1

Compl. Specn. 56 Pages.

Provl. Specn. 59 Pages.

Drg. Nil.

Drgs. 7 Sheets.

CLASS : 152-E, F.

168382

Int. Cl. : C 09 c 1/44.

RAW BATCH CARBONACEOUS COMPOSITION FOR USE IN MAKING SHAPED SELF-SUSTAINING ARTICLE.

Applicant : BORDEN INC., OF 180 EAST BROAD STREET, COLUMBUS, OHIO 43215, U.S.A.

Inventors : (1) PITCHAIYA CHANDRAMOULI, (2) BENEDICT LETIZIA.

Application No. 264/Cal/87, filed on April 01, 1987.

Convention dated 26th January, 1987; No. 528163; CANADA.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

24 Claims

A raw batch carbonaceous composition for use in making a shaped self-sustaining article such as herein described comprising:

a mixture of a carbonaceous aggregate, a curable resin binder in sufficient quantity when cured to bond said aggregate into a desired shape that is self-sustaining, wherein said curable resin binder is selected from a group consisting of:

- (a) a liquid phenol formaldehyde resole resin having a viscosity in the range from 50 cps to 500 cps and a free phenol content of not more than 30%;
- (b) a mixture of a liquid phenol formaldehyde resole resin having a viscosity in the range from 50 cps to 500 cps and a free phenol content of not more than 30% and a phenolformaldehyde novolac resin in particulate or hot melt form, having a melting point of at least 100°C (212°F) and a total volatiles content at 135°C (275°F) of not more than 5% by weight of said resin including a free phenol content of not more than 4% by weight of said resin as measured by gas chromatography analysis; and
- (c) a phenol-formaldehyde novolac resin in particulate or hot melt form, having a melting point of at least 100°C (212°F) and a total volatiles content at 135°C (275°F) of not more than 5% by weight of said resin including a free phenol content of not more than 4% by weight of said resin as measured by gas chromatography analysis, and wherein said resin is used together with an amount of curing agent such as herein described whereby the raw batch composition achieves substantially complete cure of the phenol-formaldehyde resin at temperatures of 150°C to 200°C and wherein the total resin solids in said curable resin binder comprises from 6% to 15% by weight of said aggregate.

Compl. Specn. 34 Pages.

Drg. Nil.

CLASS : 25-D, E; 193.
Int. Cl. : C 04 b 35/00, 38/00.

168383

METHOD FOR PRODUCING SELF-SUPPORTING CERAMIC BODIES WITH REFINED MICROSTRUCTURES.

Applicant : LANXIDE TECHNOLOGY COMPANY, LP; TRALEE INDUSTRIAL PARK NEWARK, DELAWARE 19711, U.S.A.

Inventors : (1) ROBERT CAMPBELL KANTNER, (2) MICHAEL KEVORK AGHAJANIAN, (3) STANISLAY ANTOLIN, (4) ALAN SCOTT NAGELBERG, (5) RATNESH KUMAR DWIVEDI.

Application No. 695/Cal/1987, filed on September 02, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

16 Claims

A method for producing a self-supporting ceramic body comprising alumina obtained as the oxidation reaction product of an

aluminum parent metal and an oxidant such as herein described, said alumina optionally embedding a filler material said ceramic body being characterized by a refined microstructure attributable to the addition of a sufficient amount of at least one material which functions as modifier material, relative to substantially the same oxidation reaction product produced without a modifier material, which method comprises the steps of:

- (A) providing at least one modifier material such as herein described selected from the group consisting of a process modifier such as herein described and a precursor to a process modifier;
- (B) conjoining said at least one modifier material with said parent metal;
- (C) optionally providing at least one material to be embedded selected from the group consisting of a mass of filler material such as herein described and a preform, said at least one material to be embedded being placed adjacent to said parent metal;
- (D) heating said parent metal in the presence of said oxidant to a temperature above its melting point but below the melting point of said oxidation reaction product to form a body of molten metal and at said temperature reacting said molten metal with said oxidant to form an oxidation reaction product, which product is in contact with an extends between said body of molten metal and said oxidant, and at said temperature transporting said molten metal through said fresh oxidation reaction product toward said oxidant so that oxidation reaction product continues to form at the interface between said oxidant and previously formed oxidation reaction product, thereby growing a progressively thicker body of said oxidation reaction product and continuing said reaction for a time sufficient to produce a body having said refined microstructure, and
- (E) recovering said body.

Compl. Specn. 27 Pages.

Drg. 1 Sheet.

CLASS : 127-I.
Int. Cl. : B 65 g 23/00.

168384

POWER DRIVE OF THE WORKING ELEMENT OF AN INDUSTRIAL MACHINES SUCH AS MINING MACHINES, MATERIAL HANDLING MACHINES, EARTH MAKING MACHINE, AND ROLLING MILL MACHINES.

Applicant : MOSKOVSKY GORNY INSTITUT, OF MOSCOW, LENINSKY PROSPEKT, 6, U S S R.

Inventors : (1) ROMAN JURIEVICH PODERNI, (2) MARAT KHANAFIEVICH MUKHAMEDOV, (3) MIKHAIL RUVIMOVICH KHROMOL, (4) VLADIMIR FEDOROVICH SANDALOV, (5) BORIS IVANOVICH SKURYDIN, (6) RASHID AKHMETOVICH SHAMSHADINOV, (7) JURY GELIEVICH IOZENAS,

Application No. 759/Cal/1987, filed on September 24, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A power drive of the working elements of an industrial machine such as mining machine, material handling machines, earth moving machines, rolling mill machines, situated on the load-carrying structure of the machine and incorporating a multiple-link planetary mechanism which has a link adapted to take up the reactive torque developed by the mechanism, the input shaft of the planetary

mechanism being connected to the shaft of an actuating motor, while its output shaft is in operational association with the working element of the machine, and a means for protecting the power drive against static and dynamic overloads said machine being a hydrostatic machine provided with a high pressure line, the shaft and a low pressure line of the hydrostatic machine being mechanically connected to the planetary mechanism link that takes up the torque developed by the mechanism.

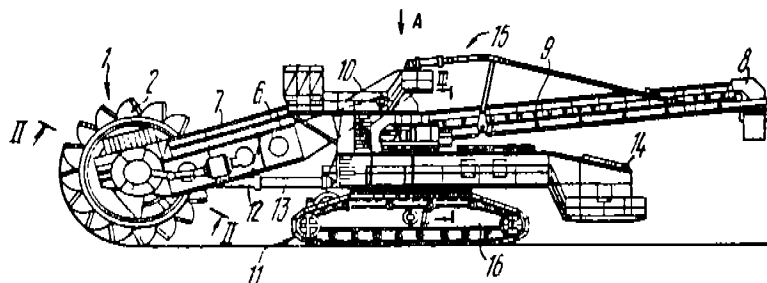


Fig. 1

Compl. Specn. 45 Pages.

Drgs. 9 Sheets.

CLASS : 129-F, G.
Int. Cl. : G 05 b 19/00.

168385

A METHOD OF MANUFACTURING A MACHINED MATERIAL FROM A WORK PIECE.

Applicant : CARRIER CORPORATION, AT CARRIER PARKWAY, P.O. BOX 4800, SYRACUSE, NEW YORK 13221, U.S.A.

Inventors : (1) SHAHROKH ETEMAD, (2) DONALD YAN-NASCOLI, (3) MICHAEL VASILIOS HATZIKAZAKIS.

Application No. 792/Cal/1987, filed on October 12, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A method of manufacturing a machined material from a work piece which comprises subjecting said work piece to a machining operation in a numerically controlled machine, said method comprising :

- (i) mounting said work piece on a work piece holder and adjacent to a cutting tool on said numerically controller machine wherein the theoretical tool path and approximate tool path are first determined;
- (ii) subjecting said work piece to a milling step by means of said cutting tool; characterised in that the milling is carried out to obtain a series of circular arcs located between points on the surface of the work piece, allowing a maximum allowable discrepancy of configuration from a pre-determined mathematical representative such as herein described of the desired shape, in the instances where the discrepancy is more than the maximum allowable limit selecting a fresh starting place running through the

numerically controlled machine and that the milling operation is repeated to obtain the most approximate curvature of the work piece in the above manner until the entire work piece is produced.

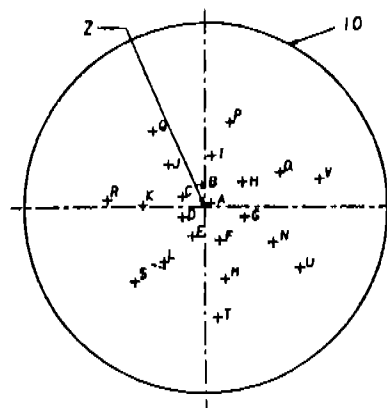


Fig. 1

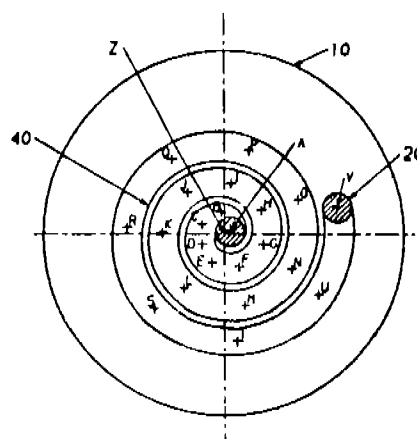


Fig. 2

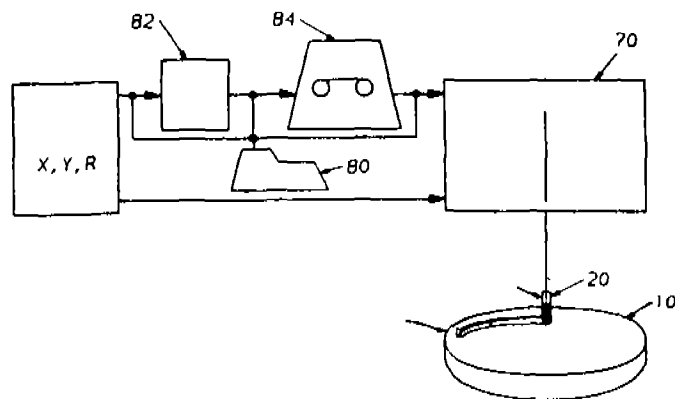


Fig. 4

Compl. Specn. 12 Pages.

Drgs. 4 Sheets.

CLASS : 55-E.

168386

Int. Cl. : A 61 k 7/00.

A PROCESS FOR PREPARING A STABLE ANTIOXIDANT MATERIAL.

Applicant : BAR-ILAN UNIVERSITY, OF RAMAT GAN, ISRAEL.

Inventors : (1) MICHAEL ALBECK, (2) SHILOMO GROSSMAN.

Application No. 893/Cal/1987, filed on November 12, 1987.

Complete Specification left on 5th April, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A process for the preparation of antioxidant material as herein described which comprises the steps of extracting plant material of the type chenopodiales with water using a plant to water ratio in the range of 0.5:100 to 10:0.5 W/V, at a temperature in the range of 4°C to 100°C, which plant material may be optionally comminuted prior to or simultaneously with the extraction step and thereafter subjecting the thus obtained aqueous extract to at least one chromatographic fractionation to obtain fractionated extract of desired plant tissue as said antioxidant material.

Compl. Specn. 28 Pages.
Provl. Specn. 25 Pages.

Drgs. 6 Sheets.
Drg. Nil.

CLASS : 32-F_{30b}.

168387

Int. Cl. : C 07 c 65/00.

IMPROVEMENTS IN OR RELATING TO A PROCESS FOR THE PRODUCTION OF AROMATIC CARBOXYLIC ACID.

Applicant : MITSUI PETROCHEMICAL INDUSTRIES, LTD., OF NO. 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO 100, JAPAN.

Inventors : (1) SHIGEMI SHIRAKI, (2) KENICHI MIZUNO.

Application No. 939/Cal/1987, filed on November 30, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

In a continuous process for producing an aromatic carboxylic acid such as herein described in a cylindrical reaction vessel containing a lower liquid phase and an upper gas phase, comprising continuously oxidizing an alkyl aromatic compound such as herein described in said liquid phase with an oxygen-containing gas in the presence of a catalyst containing a heavy metal compound, such as herein described a bromine-containing compound such as herein described or both of said heavy metal compound and said bromine-containing compound, continuously withdrawing a gaseous effluent containing a condensable vapor and noncondensable gas from the gas phase of said reaction vessel, continuously condensing said condensable vapor to obtain a condensate and continuously separating said condensate from said noncondensable gas, the improvement, for minimizing the amount of said liquid phase that is entrained in said gaseous effluent, comprises :

continuously dividing the entirety of said noncondensable gas into an exhaust gas portion and a recirculation gas portion so that the amount of said recirculation gas portion is from 5 to 400% by volume, based on the amount of said exhaust gas portion; continuously discharging said exhaust gas portion from the reaction vessel; continuously flowing a stream consisting of the entirety of said recirculation gas portion into said gas phase of said reaction vessel at a location which is spaced above the upper surface of said liquid phase at least a distance equal to 0.1 times the diameter of said reaction vessel, said stream being directed into said gas phase at an angle of from 0 to 80° relative to a tangent to the wall of said reaction vessel whereby said stream swirls in said gas phase, causes collapse of foam on the upper surface of said liquid phase, blows liquid droplets and mist that are floating in said gas phase against the wall of said reaction vessel so that they collect on said wall and increases the partial pressure of oxygen in said gas phase.

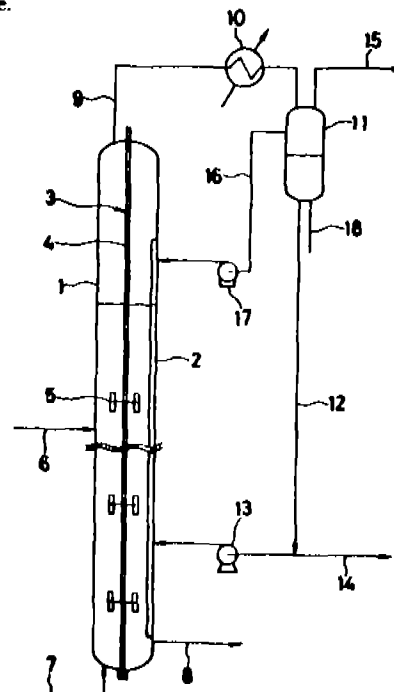


Fig. 1

Compl. Specn. 16 Pages.

Drg. 1 Sheet.

CLASS : 32-A₂.

168388

Int. Cl.: C 09 b 50/00.

A PROCESS FOR THE PREPARATION OF COPPER COMPLEX FORMAZAN COMPOUNDS CONTAINING A FIBER-REACTIVE GROUP, SUITABLE AS DYE STUFFS.

Applicant : HOECHST AKTIENGESELLSCHAFT, D-6230
FRANKFURT AM MAIN 80, F. R. GERMANY.

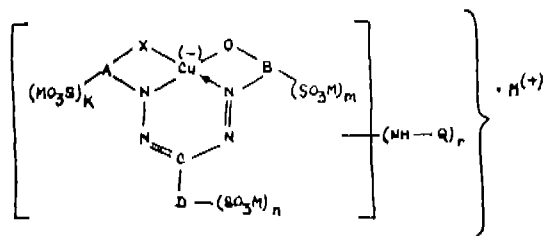
Inventors : (1) GUNTHER SCHWAIGER, (2) HARTMUT SPRINGER, (3) WERNER HUBERT RUSS.

Application No. 86/Cal/1988, filed on February 01, 1988.

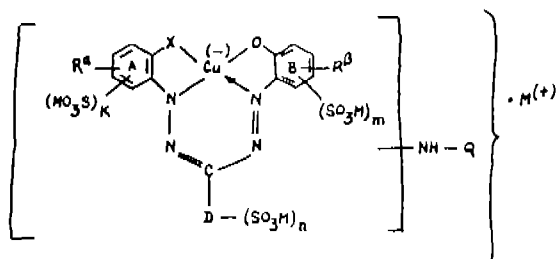
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

24 Claims

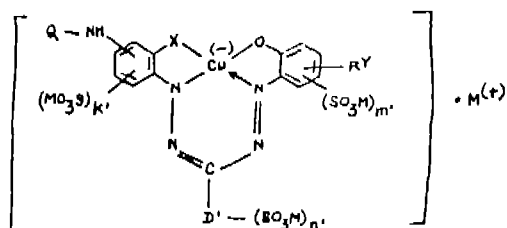
1. A process for preparing a copper complex formazan compound which conforms to the general formula (1) of the accompanying drawings.



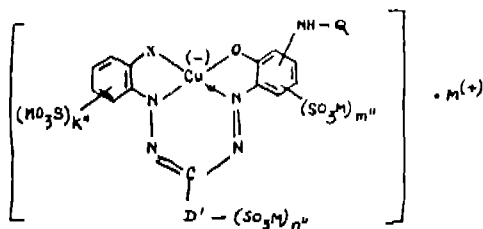
Formula (1)



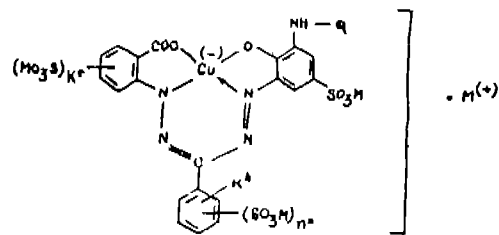
Formula (1a)



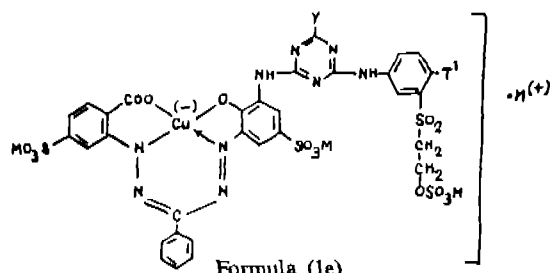
Formula (1b)



Formula (1c)



Formula (1d)



Formula (1e)

in which

M is a hydrogen atom or a salt-forming metal atom.

k is the number zero, 1 or 2.

m is the number zero, 1 or 2, and

n is the number zero, 1 or 2,

the sum of $(k + m + n)$ being equal to an integer from 1 to 4.

A is a benzene ring or a naphthalene ring, which each can be substituted, in addition to the groups drawn in, by the indicated fiber-reactive group -NH-Q defined hereinafter and/or by 1 or 2 other substituents, the radical X bonded to A and the nitrogen atom preferably being bonded to A in the ortho-position relative to each other.

B is a benzene ring or a naphthalene ring, which each can be substituted, in addition to the group drawn in, by the indicated fiber-reactive group -NH-Q defined hereinafter and/or by 1 or 2 substituents, the oxygen and nitrogen atoms bonded to B preferably being bonded to B in the ortho-position relative to each other,

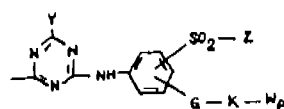
D is a straight-chain or branched alkylene group of 1 to 8 carbon atoms, which can be substituted, or is a benzene or naphthalene ring which each, in addition to $-(SO_3M)_n$, can additionally be substituted by 1 or 2 substituents.

or D is a heterocyclic radical,

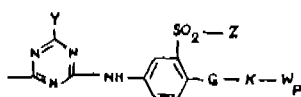
X is a group of the formula $\text{-SO}_3^{(1)}$, the bonding to the copper atom and the negative charge thereof not being included, or is an oxy group -O- or a carbonyloxy group -CO-O- .

r is the number 1 or 2,

Q is a group of the general formula (2)



Formula (2)



Formula (2a)

in which

Y is a halogen atom,

Z denotes the vinyl group or an ethyl group which is substituted in the β -position by an alkali-eliminable substituent,

G is the thio group -S- or an amino group of the formula -N(R)-,

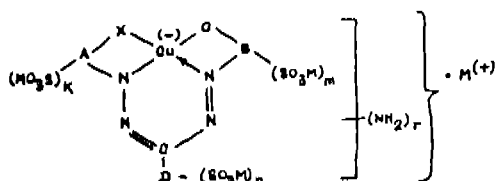
in which

R stands for a hydrogen atom or an alkyl group of 1 to 4 carbon atoms, which can be substituted, or is a group of the formula -K-W_p defined hereinafter,

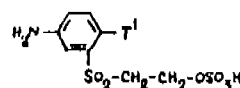
K is an alkylene group or an arylene radical or an arylene-alkylene or an alkylene-arylene radical, where not only the alkylene but also the arylene radicals can be substituted and where not only the alkylene radical but also the alkylene and arylene radicals in the alkylene-arylene and arylene-alkylene radicals can additionally be interrupted by at least one hetero group,

W is a water-solubilizing group, and

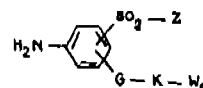
P stands for the number 1, 2 or 3, the fiber-reactive grouping -NH-Q is bonded to an aromatic carbon atom of a benzene or naphthalene ring of A or of B or of D or to an aliphatic carbon atom of D or of a substituent on A or B, except that in the case of $r = 2$ the two -NH-Q groups are not bonded simultaneously to A or to B or to D, which comprises reacting in an aqueous medium at a pH between 2 and 8 and at a reaction temperature between -5°C and $+15^{\circ}\text{C}$ and in equivalent amounts, cyanuric chloride or cyanuric fluoride in any desired order with an aniline compound of the general formula (4) in which G, K, W, p and Z have one of the above-mentioned meanings, and with an amino-containing copper complex formazan compound of the general formula (3) in which the individual symbols in the formula have the meanings mentioned for the formula (1), the amino group, which is present once or twice in the copper complex formazan molecule ($r = 1$ or 2) — analogously to the fiber-reactive grouping -NH-Q in the compounds of the formula (1) — being bonded to an aromatic carbon atom of a benzene or naphthalene ring of A or of B or of D or to an aliphatic carbon atom of D or of a substituent on A or B, with the proviso that in the case of $r = 2$ the two amino groups not being bonded simultaneously to A or to B or to D.



Formula (3)



Formula (3a)



Formula (4)

Compl. Specn. 57 Pages.

Drgs. 5 Sheets.

CLASS : J29-H.

168389

Int. Cl. : B 24 b 11/00.

METHOD OF GRINDING SLIPPER SURFACE OF A ROCKER ARM AND A DEVICE FOR PERFORMING THE SAME.

Applicant : KABUSHIKI KAISHA NISSHIN SEISAKUSHO 22, AZA-CHITOSE, MINEYAMACHO, NAKAGUN KYOTO PREFECTURE, JAPAN.

Inventors : (1) SHIJI YAMANE, (2) SEIJI TOU.

Application No. 116/Cal/1988, filed on 10th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

A method of grinding slipper surface of a rocker arm comprising steps of rotating and driving a disc-shaped grinding wheel having a polishing surface composed of a plane perpendicular to the rotary shaft line of the grinding wheel, and polishing the slipper surface of the rocker arm while pressing said slipper surface against the polishing surface while oscillating said rocker arm about the oscillating shaft line positioned at a distance of a specified roundness dimension from the polishing surface, wherein said oscillating shaft line is parallel to said polishing surface and within a plane perpendicular to said polishing surface containing the contact line between said polishing surface and slipper surface, and is also parallel to said polishing surface.

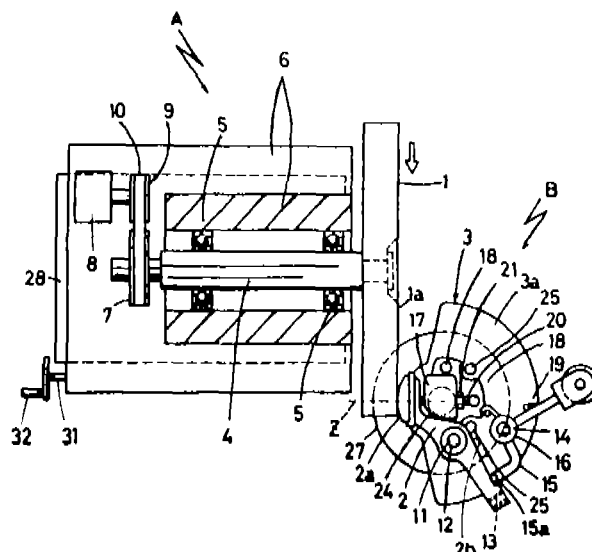


Fig. 1

Compl. Specn. 26 Pages.

Drgs. 6 Sheets.

CLASS : 190-B.
Int. Cl. : F 01 p 1/00.

168390

GAS TURBINES.

Applicant : WESTINGHOUSE CANADA INC. OF 120 KING STREET WEST, HAMILTON, ONTARIO, CANADA L8P 4V2, CANADA.

Inventor : GRAHAM PHILIP BUTT.

Application No. 190/Ca/1988, filed on 4th March, 1988.

Convention date 1st April, 1987; No. 533, 623; CANADA.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 claims

A gas turbine including a compressor section (10), a combustor section a power turbine section (11), and a transition duct (13) coupling said combustor to said power turbine section (11); characterized by means disposed adjacent said transition duct (13) to direct the air-flow from said compressor section (10) to said combustor substantially uniformly over the surfaces of said transition duct (13), so as to equalize the surface temperature of said transition duct (13), said means consisting of a saddle-shaped member (16) spaced from the outer surface of said transition duct (13) to form an air channel between said saddle-shaped member (16) and the outer wall (15) of said transition duct (13) through which at least a portion of the airflow (12) from the compressor is constrained to pass on its way to the combustor.

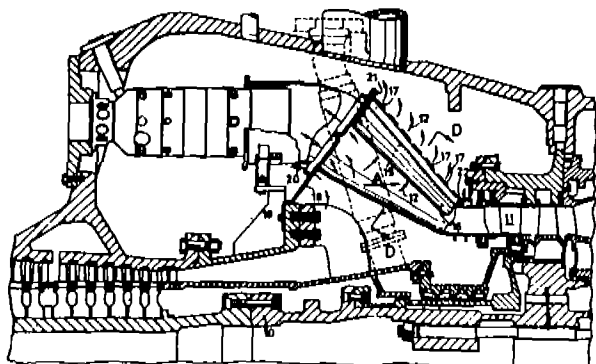


Fig. 2

Compl. Specn. 9 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 35 B.
Int. Cl.⁴ : B 02 C 15/08.

168391

BALL TUBE MILL FOR USE IN COMMUNUTING HARD MATERIALS.

Applicant : BELGORDSKY TEKHNOLOGICHESKY INSTITUT STROITELNYKH MATERIALOV IMENT I.A. GRISHMANOVA, OF ULITSA KOSTJUKOVA, 46 BALGORD, U.S.S.R. TECHNOLOGICAL INSTITUTE.

Inventors : VASILY STEPANOVICH BOGDANOV, VIKTOR STEPANOVICH PLATONOV, NIKOLAI STEPANOVICH BOG-

DANOV, JURY GERGARDTOVICH REDKO, IVAN IVANOVICH MIROSHNICHENKO & NIKOLAI DMITRIEVICH VOROBIEV.

Application for Patent No. 86/Del/87, filed on 3rd February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A ball tube mill for use in comminuting hard materials, said mill having an inclined wall (4) dividing the inner space of the mill into a coarse grinding chamber (5) and a fine grinding chamber (6), said wall (4) consisting of rods (9) rigidly interconnected therebetween to provide slots (10, 11) for the passage of the material being ground, each said slot (10) in the area (12) of contact of the inclined wall (4) with the grinding bodies (8) disposed in the fine grinding chamber (6) having a width in the range of 0.15—0.30 of the minimum diameter of the grinding bodies (8) disposed in the fine grinding chamber (6), whereas the width of the slots (11) in the remaining portion of the inclined wall (4) being within the range of 0.3—0.6 of the minimum diameter of the grinding bodies (7) disposed in the coarse grinding chamber (5).

Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 148 H.
Int. Cl.⁴ : G03B 41/00.

168392

APPARATUS FOR USE IN RECREATING A PHOTOGRAPHIC IMAGE WITH SELECTIVE ALTERATIONS.

Applicant : GILCHRIST STUDIOS GROUP LIMITED, A BRITISH COMPANY, OF 6/10 KIRBY STREET, LONDON EC1N 8TH, ENGLAND.

Inventors : BRIAN WILLIAM OXLEY & RICHARD JAMES BURCH.

Application for Patent No. 148/Del/87, filed on 19th February, 1987.

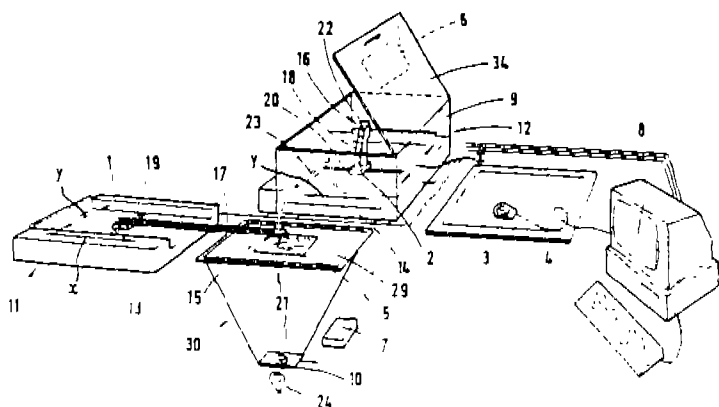
Convention date February 19, 1986/8604040/(U.K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

13 Claims

Apparatus for use in recreating a photographic image with selective alterations; said apparatus comprising controllable occluder means (10, 29, 30, 24) through which light is passed to produce a first image (5), a first scanning means (15) for scanning the first image (5) with a light collecting means (21) for scanning the first image (5) and the light collecting means (21) in first (X) and second (Y) directions, the light collecting means (21) being small in relation to the extent of the first image (5) in both the first (X) and second (Y) directions; light emitting means (22) connected to said light collecting means (21) by a light transmitting means (23) for causing the light emitting means (22) to emit light derived from said light collecting means (21) second scanning means (16) connected to said light emitting means (22) for scanning the light emitting means (22) over photographic film (6) to expose the film (6) and create a

second photographic image thereon by relative movement between the photographic film (6) and the light emitting means (22) in third and fourth directions, the light emitting means (22) being small in relation to the second image in both the third and fourth directions and control means (8, 3, 4, 7) connected to the respective first (15) and second (16) scanning means for controlling said scanning means (15, 16) independently in relation to the associated scanning directions (XY), said control means (8, 3, 4, 7) also connected to said occluder means (10, 29, 30, 24) for controlling the operation thereof to alter the second image in some respect from the first image (5).



Compl. Specn. 15 Pages.

Drgs. 4 Sheets.

Ind. Cl.: 40 B IV (1).
Int. Cl.: B01J-21/10, 27/06, 27/135.

168393

A PROCESS FOR PREPARING A SOLID CATALYST COMPONENT.

Applicant: SHELL OIL COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE UNITED STATES OF AMERICA OF: 900 LOUISIANA, HOUSTON, TEXAS 77001, UNITED STATES OF AMERICA.

Inventors: STEVEN MICHAEL NESTLERODE, ISRAEL GERSHON BURSTAIN & ROBERT CHARLES JOB.

Application for Patent No. 162/Del/87, filed on 24th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A process for preparing a solid catalyst component for use in the polymerisation of alpha olefins, the catalyst component containing magnesium, titanium and halogen which comprises:

- decarbonating a carbonated magnesium compound of the formula $MgR'R''XCO_2$ wherein R' is an alkoxy or aryloxy group, R'' is halogen or an alkoxy or aryloxy group and X is a value between 0.1 and 2;
- halogenating said decarbonated magnesium compound with a halide of tetravalent titanium in the presence of a halohydrocarbon and an electron donor of the kind described herein;
- contacting the resulting halogenated product with a halide of tetravalent titanium;
- washing the resulting product to remove unreacted titanium compounds; and

- recovering in a manner known *per se* the desired catalyst component, characterised in that said decarbonating is effected by heating said carbonated magnesium compound at a temperature of at least 100°C.

Compl. Specn. 27 Pages.

Drg. Nil.

Ind. Cl.: 33 F.
Int. Cl.: B28 B7/28.

168394

A PROCESS FOR THE PRODUCTION OF CERAMIC CORES.

Applicant: SOCIETE NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION—"S.N.E.C.M.A." 2, BOULEVARD VICTOR 75015-PARIS, FRANCE.

Inventor: JACKY PIERRE TABARDIN.

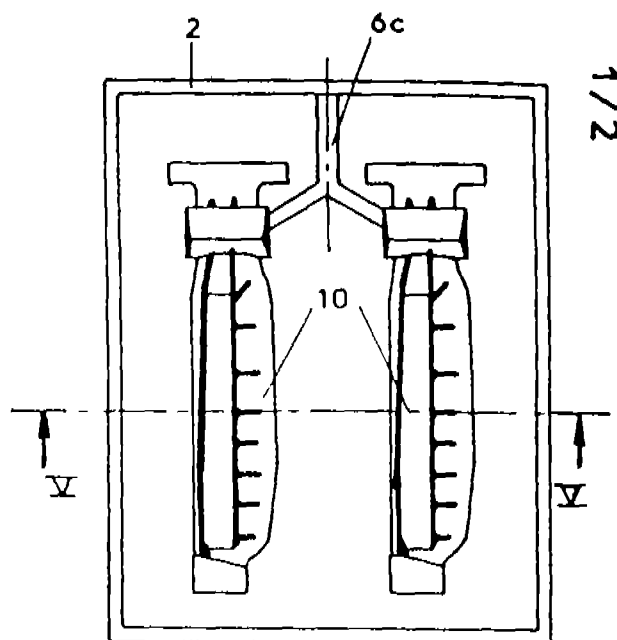
Application for Patent No. 198/Del/87, filed on 5th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A process for the production of ceramic cores intended for the casting of high precision parts by the lost wax method, the process comprising the steps of:

- providing in a manner known *per se* a core (1, 11) having cavities (1a, b, c) therein,
- providing in a manner known *per se* a flexible mould (2, 3, 4),
- filling by means of an injection moulding machine, (7) the cavities of the core with wax while the core is enclosed within the flexible mould, and
- enrobing the core with wax and thus obtaining the required ceramic cores.



Compl. Specn. 10 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 24 A (IV).
Int. Cl.: B 61 H 5/00.

168395

168396

A DISC BRAKE FOR A VEHICLE.

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventor: ANTHONY WILLIAM HARRISON.

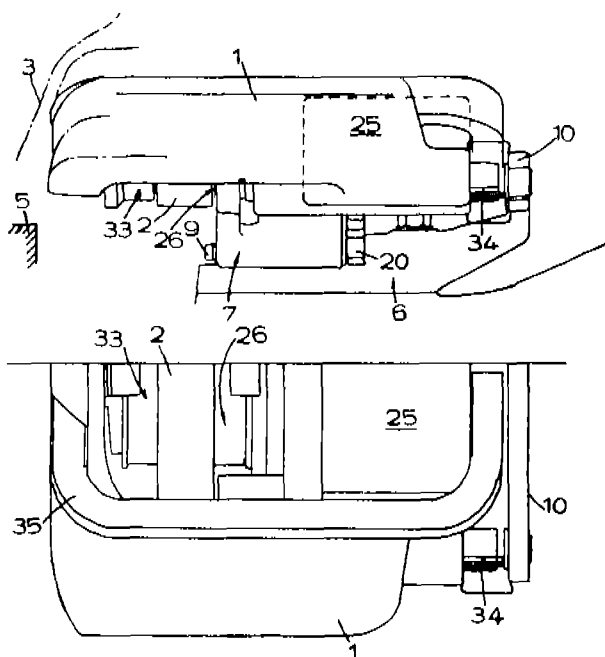
Application for Patent No. 218/Del/87, filed on 12th March, 1987.

Convention date March 27/86/8607760/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

12 Claims

A disc brake for a vehicle having a caliper assembly incorporating means (25) for applying friction pad assemblies (26, 33) to opposite faces of a disc (2) rotatable with an axle-mounted wheel (3), and said caliper assembly (1) is mounted on the axle (4) on the inboard side of the disc (2) by means of a bracket (6, 7) which is detachably mounted in the axle (4) and incorporating a flange (17) projecting radially outwards to cooperate with the caliper assembly (1) and incorporating a diaphragm (12) which extends between the caliper assembly (1) and the adjacent inboard friction pad assembly (26) the diaphragm (12) being provided with at least one opening (31) through which a brake-applying force from the caliper assembly (1) can be transmitted to the inboard pad assembly (26) in which the caliper assembly (1) and the bracket (6, 7) lie substantially outside the peripheral edge of a flange (5) on the axle (4) on which the wheel (3) is mounted so that after removing the wheel (3) and detaching the bracket (6, 7) from the axle (4) the disc (2) and the caliper assembly (1) can be withdrawn from the axle (4) in an axial direction.



Compl. Specn. 12 Pages.

Drgs. 4 Sheets.

Ind. Cl.: 127 I.
Int. Cl.: F16H-21/52.

A DEVICE FOR CONVERTING UNI-DIRECTIONAL MOTION FROM A SHAFT INTO MULTI-DIRECTIONAL MOTION ON TWO SHAFTS AND AN ENGINE INCORPORATED THE SAID DEVICE.

Applicant & Inventor: AJENDRA KUMAR MITTAL, C/O SHRI RAMA NAND GUPTA, 335, SUBHASH NAGAR, MEERUT CITY (U.P.).

Application for Patent No. 415/Del/87, filed on 12th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

A device for converting uni-directional motion from a shaft into multi-directional motion on two shafts in such a way that driven-shafts rotate in opposite directions to each other and also their respective directions of rotation change repeatedly, comprising a driving-shaft (1), two driven-shafts (3, 4) and an idler, all of these being placed with their axis parallel to one another and connected by a chain-assembly (7, 8), the driving-shaft and the idler (2) being placed at two respective ends with both the driven-shafts in the middle, the two driven-shafts being provided with a meshing gear (5, 6) each so as to transfer motion from driven-shaft to another driven-shaft in opposite direction, the said chain-assembly comprising a pair of end-less side chains joined symmetrically with three identical middle chains (9, 10, 11) having alternate open spaces around the pair of end-less side chains; the driving shaft and the idler having a pair of sprocket-teeth each corresponding to the said pair of the end-less side chains and the two driven-shafts having sprocket-teeth corresponding to the said middle chain, uni-directional motion of the said driving-shaft rotate the said chain-assembly continuously over it and the said idler, two of the three middle chains by turn rotate the driven-shafts in one direction and one at a time alternately, the other driven-shaft rotate in opposite direction through the meshing gears, the driving-shaft, the idler and both the driven-shafts being mounted on suitable bearings supported on a frame.

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. Cl.: 39L.
Int. Cl.: C01F 7/02.

168397

A PROCESS FOR THE MANUFACTURE OF ALUMINA FROM BAUXITE.

Applicant: VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY I PROEKTYN INSTITUTE ALUMINIEVOI, MAGNIEVOI I ELEKTRODNOI PROMYSHLENNOSTI, OF SREDNY PROSPEKT, 86, LENINGRAD, USSR.

Inventors: NAUM SOLOMONOVICH MALTS, VLADIMIR EVGENIEVICH KISELEV, VADIM SERGEEVICH SMIRNOV, TATYANA SERGEEVNA LEVINA, NIKOLAI STEPANOVICH SHMARGUNENKO, ALEXANDER YAKOVLEVICH PRILUTSKY, LEONID SEMENOVICH RUDASHEVSKY, ALEXANDER GENNADIEVICH SUSS, IRINA BORISOVNA FIREAROVA, NINA SERGEEVNA KHAZOVA, DINAM LATYPOVICH NASYROV & KONSTANTIN VASILIEVICH KOZIN.

Application for Patent No. 511/Del/87, filed on 15th June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

3 Claims

A process for the manufacture of alumina from bauxite which comprises grinding bauxite in the presence of a calcium-bearing additive as hereinbefore defined to obtain a pulp, heating said pulp to a temperature of 200°C to 280°C, diluting said pulp with water to obtain a solution containing a solid phase and a liquid aluminate phase, separating said liquid aluminate phase, and decomposing said aluminate in the presence of an aluminium hydroxide seed to obtain a suspension containing alumina and isolating said alumina characterised in that said grinding is performed in the presence of an alkaline solution as herein described, said pulp has a $\text{CaO}:\text{TiO}_2$ ratio of 0.7 to 2.0 and after heating of said pulp, said calcium-bearing additive is added to said pulp to obtain a pulp having a molar ratio of CaO to Fe_2O_3 of from 0.1 to 0.3 and said decomposition is carried out by subjecting said aluminate to a temperature of 40°C to 50°C.

Compl. Specn. 27 Pages.

Drg. Nil.

Ind. Cl.: 10F.

168398

Int. Cl.4: F42 C7/00.

A BASE BLEED UNIT FOR INCREASING THE RANGE OF FIRE AND FOR DECREASING THE TIME OF FLIGHT FOR SHELLS AND PROJECTILES.

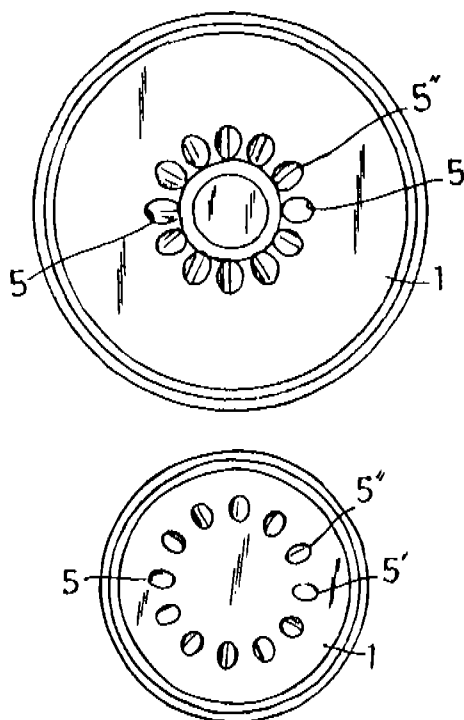
Applicants: KURT GORAN ANDERSSON, OF PUDELGRAND 10, S-123 62 FARSTA, SWEDEN; NILS-ERIK GUNNERS, OF FURUDALSVAGEN 10, S-137 00 VASTERHANINGE, SWEDEN AND YNGVE LENNART NILSSON, OF MARIEFREDSVAGEN 2 C, S-152 00 STRANGNAS, SWEDEN, ALL SWEDISH CITIZENS.

Application for Patent No. 775/Del/87, filed on 2nd September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

11 Claims

A base bleed unit for increasing the range of fire and for decreasing the time of flight for shells and projectiles comprising a housing (1, 12) which comprises a member (1, 12) attachable by the rear portion of the projectile body (2), at least one fuel charge (6) surrounded by the said housing, at least one ignitor (4) comprising a pyrotechnical charge located in a blind hole or recess open in direction towards the rear plane of the projectile body (2) and at least one outlet nozzle (5', 5'', 5''') located in an annular and surrounding relationship to the said ignitor (4) and directed away from the said projectile body (2) by the portion of the housing (1, 11, 12), during combustion said fuel charge (6) being provided to generate a mass flow for reducing existing base drag, characterised in that igniter or igniters (4, 4') are located adjacent to the internal surface of the restricting wall (12) in the housing (1, 11, 12) which is located at a distance from the rear surface of the projectile body (2).



Compl. Specn. 12 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 40-B.

168399

Int. Cl.: B 01 J & 29/04.

A PROCESS FOR THE PREPARATION OF A HIGH SILICA ZEOLITE OF PENTASIL FAMILY FROM PADDY HUSK ASH.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors: PRADIP KUMAR BASU, SUNIL KUMAR ROY, JAGANNATH DAS, ANJANA BHATTACHARJEE, SISIR KUMAR ROY.

Application for Patent No. 990/Del/87, filed on 18th November, 1987.

Complete Specification left on 10th February, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

8 Claims

A process for the preparation of high silica zeolite which comprises burning paddy husk in the presence of air, to convert the husk to its ash, treating the ash with an hydroxide solution of group 1A metal to extract silica therefrom treating the extracted colloidal silica with an aluminium salt such as herein described, a templating agent such as herein described and sulphuric acid alongwith water to make a thin slurry, treating the said slurry in an autoclave, and the resultant product being washed, dried and calcined.

Prov. Specn. 5 Pages.

Drg. Nil.

Compl. Specn. 10 Pages.

Ind. Cl. : 189.
Int. Cl. : A61K 7/16.

168400

REGISTRATION OF DESIGNS

ANTIBACTERIAL, ANTIPLAQUE, ANTICALCULUS
ORAL COMPOSITION.

Applicant : COLGATE-PALMOLIVE COMPANY, A DELA-
WARE CORPORATION, OF 300 PARK AVENUE, NEW YORK,
NEW YORK-10022, UNITED STATES OF AMERICA.

Inventors : ABDUL GAFFAR, NURAN NABI & BRIAN S.
JANNONE.

Application for Patent No. 1148/Del/87, filed on 30th Decem-
ber, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office Branch, New Delhi-110 005.

18 Claims

An antibacterial, antiplaque, anticalculus oral composition of the
kind such as herein described which comprises in a conventional
orally acceptable vehicle :

from 0.1% to 7% by weight of an anticalculus agent com-
prising at least one linear molecularly dehydrated poly-
phosphate salt; and

from 0.01% to 5% by weight of a substantially water-
insoluble non-cationic antibacterial agent selected from the
group consisting of halogenated diphenyl ethers, phenol and
phenolic compounds, benzoate esters and halogenated
carbanilides.

Compl. Specn. 31 Pages.

The following designs have been registered. They are not open to
inspection for a period of two years from the date of registration
except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration in
the entry.

Class 3. No. 162446. Nikhi Rubbers Private Limited, D-15-Panki
Industrial Area, Site-II, Kanpur-208022, U.P. "Glove".
August 27, 1990.

Class 3. No. 162475. Mahavir Rubber Industries, Indian Part-
nership Firm of S-132, Industrial Area, Jalendhar City,
144004, Punjab, India. "Tyre". September 4, 1990.

Class 3. No. 162673. Injex Plastics of 5A, Kishori Mukherjee
Lane, Calcutta-700006, W. B., India, Indian Proprietary
Firm. "Whistle". November 16, 1990.

Class 12. Nos. 162738, 162739 & 162743. Synthetic Esters &
Chemicals, a sole proprietary concern of 142, Atur
Terraces, Cuffe Parade, Bombay-400005, Maharashtra,
India. "Toilet Soap". December 11, 1990.

R. A. ACHARYA,
CONTROLLER GENERAL OF PATENTS,
DESIGNS AND TRADE MARKS.

